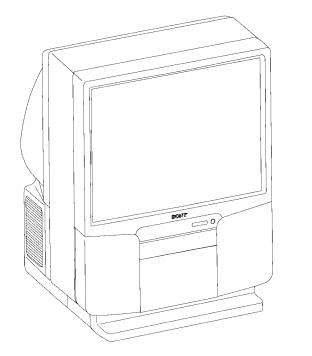
SERVICE MANUAL

AP-1E CHASSIS

DEL	COMMANDER	DEST.	CHASSIS NO.
P-S4111K	RM-831	OIRT	SCC-H55A-A
P-S4112U	RM-831	UK	SCC-H54A-A
P-S4113	RM-831	AEP	SCC-H08B-A









ITEM MODEL	Television system	Stereo system	Channel coverage	Color system
OIRT	B/G/H, D/K	GERMAN Stereo	PAL B/G/H: E2-E12, E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M01-10, U1-U10 ITALIA: A, B, C, D, E, F, G, H, H1, H2, H21-H69 SECAM D/K: R01-R12, R21-R60	PAL/SECAM NTSC3.58, NTSC4.43 (VIDEO IN)
UK	I	NICAM Stereo	UHF: B21-B69	PAL/SECAM NTSC3.58, NTSC4.43 (VIDEO IN)
AEP	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	PAL B/G/H: E2-E12, E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M01-10, U1-U10 ITALIA: A, B, C, D, E, F, G, H, H1, H2, H21-H69 SECAM D/K: R01-R12, R21-R60 SECAM L: F2-F10, F21-F69 PAL I: B21-B68	PAL/SECAM NTSC3.58, NTSC4.43 (VIDEO IN)

MODEL	OIRT	UK	AEP
Power consumption	188W	268W	188W

Specifications

Projected picture size Approx. 103 cm (41 inches)

Input/Output Terminals

[REAR]

- 1 21-pin Euro connector (CENELEC standard)
- Inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals
- ⇒ 2/→ 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)
- → 4/→ 4 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (monitor out)
- 4 pin DIN
- Audio inputs (L, R) -phono jacks
- S→ S video output 4-pin DIN
- Audio outputs phono jacks
- Audio outputs (variable) phono jacks External speaker terminals: 2-pin DIN

[FRONT]

- 3 Video input phono jack
- Audio input phono jacks
- ─S 3 S video input 4 pin DIN

Sound output 2x30W (Music power)

Power requirements 220 - 240V

Dimensions

(incl.speakers) Approx. 925 x 1209 x 509 mm

Weight (incl. speakers) Approx. 65 kg

Supplied accessories RM-831 Remote Commander (1)

IEC designation R6 battery (1)

Other features Digital comb filter (High resolution)

PIP (Picture-in picture)

NICAM FASTEXT

[RM-831]

Remote control system infrared control

Power requirements 1.5V dc

1 battery IEC designation

R6 (size AA)

Dimensions Approx. 65 x 225 x 21 mm (w/h/d)
Weight Approx. 157g (Not including Batteries)

Design and specifications are subject to change without notice.

Model name	KP-S4111K	KP-S4112U	KP-S4113
Pal Comb	ON	ON	ON
	ON	ON	
PiP		•	ON
RGB Priority	ON	ON	ON
Woofer box	OFF	OFF	OFF
NICAM	OFF	ON	ON
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Front in (3)	ON	ON	ON
Scart 4	ON	ON	ON
Dyn. Convergence	OFF	OFF	OFF
Projector	ON	· ON	ON
AKB in 16:9 mode	ON	ON	ON
Norm B/G/H	ON	OFF	ON
Norm I	OFF	ON	ON
Norm D/K	ON	OFF	ON
Norm AUS	OFF	OFF	OFF
Norm L	OFF	OFF	ON
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Language Preset	OIRT	English	Deutch

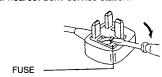
WARNING KP-S4112U only

A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.

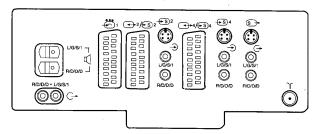
Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with or what be used.

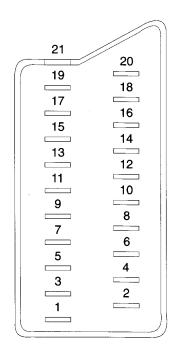
When an alternative type of plug is used it should be fitted with a 5 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sonv service station.



21 pin connector (→Ö1 →2 / →4)





Pin No	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance:less than 1kohm*
2	0	.0	Audio input B (right)	Standard level:0.5Vrms Input impedance:More than 10kohms*
3	0	0	Audio output A (left)	Standard level:0.5Vrms Output impedance:less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level:0.5Vrms Input impedance:More than 10kohms
7	0	•	Blue input	0.7V±3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5—12V):Part mode Low state (0—2V):TV mode Input impedance:More than 10kohms Input capacitance:Less than 2nF
9	0	. 0	Ground (green)	
10	0	0	Open	r
11	0	•	Green	Green signal:0.7V±3dB. 75ohms, positive
12	0		Open	
13	0	0	Ground(red)	
14	0	0	Ground (blanking)	
15	0	_	Red input	0.7V±3dB, 75ohms, positive
		0	(S signal) croma input	0.3V±3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1—3V) Low state (0—0.4V) Input impedance:75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
20	0	_	Video input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
	<u>-</u>	0	Video Input/Y (S signal)	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
21	0		Common ground (plug, shield)	

4 pin connector (-S)

Pin No	Signal	Signal level
1	Ground (audio)	
2	Ground (blue)	
3	Y (S signal) input	1V±3dB, 75ohms, positive Sync:0.3V(-3, +10dB)
4	C (S signal) input	0.3V±3dB, 75ohms, positive

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		CAUTION				S METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE	ONE

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK / ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

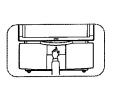
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!! LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

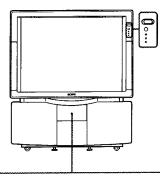
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

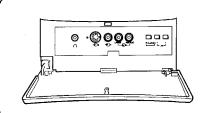
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



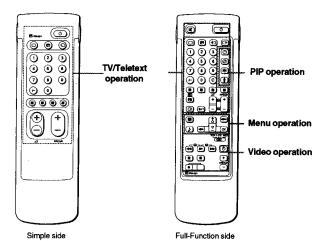
6





Symbol	Name	Refer to page	
0	Main power switch		
ტ	Standby indicator	14	
AB	Stereo A/B NICAM indicators	17	
Ω	Headphones jack	23	
—® 3, –€ 3, –€ 3,	Input jacks (S video/video/audio)	23	
P-4-D	Function selector (Programme/volume/input)	14	
-/+	Adjustment buttons for function selector	14	

Remote commander RM-831



The SAT, button does not operate with this TV.

Note

TV/Teletext operation

Symbol	Name	Refer to page
	Mute on/off button	15
ტ	Standby button	14
0	TV power on/TV mode selector button	14
€	Teletext button	15
Ð	Input mode selector	15
\ominus	Output mode selector	24
1,2,3,4,5,6, 7,8,9,and 0	Number buttons	14
-/	Double-digit entering button	14
С	Direct channel entering button	11
⊿+/-	Volume control button	14
PROGR+/-	Programme selectors	14
₽	Teletext page access buttons	19
•	Picture adjustment button	16
٨	Sound adjustment button	16
⊕	On-screen display button	15
⊕	Teletext hold button	19
0	Time display button	15
	Fastext buttons	19

PIP (Picture-in-picture) operation

Symbol	Name	Refer to page
<u> </u>	PIP on/off button	18
t	PIP source selector	18
Ø	Swap button	18
@	PIP position changing button	18

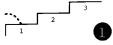
Menu operation

Symbol	Name	Refer to page
MENU	Menu on/off button	8
△+/▽−	Select buttons	8
OK	OK(confirming)button	8
←	Back button	8

Video operation

Symbol	Name	Refer to page
/TR1/2/3, /IDP	Video equipment selector	25
M ► ► ■ I ● Ø PROGR+/-	Video equipment operation buttons	25

Step 1 Preparation



Check the supplied accessories

When you've taken everything out of the carton, check that you have these items:





- RM-831 Remote Commander
- One IEC designation R6 battery

Insert the battery into the Remote Commander







Remove the cover.

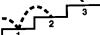
Check the correct polarities.

Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 2.

Connect the aerial a 901 11

Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the ${\ensuremath{\mathsf{T}}}$ socket at the rear of the ${\ensuremath{\mathsf{TV}}}.$

Step 2 Adjusting Colour Registration (Convergence)





Once you have set up the TV, you can choose the language of the menu. Then you should converge the three colour layers (red, green, and blue).

Before you begin

- · Check that the Full-Function side of the Remote Commander is
- · Locate Menu operation buttons on the Remote commander. They are shaded in the illustration at the left.

Choose a language

- Depress @ on the TV. The TV will switch on. If the standby indicator on the TV is lit, press O or a number button on the Remote Commander.
- 2 Press MENU. The LANGUAGE menu appears. (See Fig. 1)
- 3 Select the language you want with ∆ + or ∇ and press OK.

Display the Menu

3 Press the ← button. The main menu appears. (See Fig. 2)

lines The convergence menu appears. (See Fig. 3)

Note on the DEMO function If you choose DEMO on the main menu, you

can see a sequential demonstration of the menu functions. Press MENU to stop the function.

O Converge the red, green, and blue

- Select "Convergence" with Δ + or ∇ and press OK.
- Select "the line" you want to adjust with Δ + or ∇ -. Key to line adjustment symbols: I (red vertical - left/right adjustment)
- (red horizontal up/down adjustment) I (blue vertical - left/right adjustment)
- (blue horizontal up/down adjustment)
- Press OK. The line to adjust is selected.
- Press∆+ or ∇- to converge the selected line with the centre green line and press OK.

To move up (horizontal line) To move right (vertical line)	Press ∆+
To move down (horizontal line) To move left (vertical line)	Press ∇-

- Repeat steps 2-4 to adjust the other lines, until all the lines have overlapped to form a white cross. (See Fig. 4.)
- 6 Press MENU to return to TV picture.





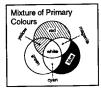




Fig. 3



Fig. 4



Step 3 Tuning in to TV Stations





To go back to the main menu
Keep pressing ← .

To stop automatic channel presetting
Press ← on the Remote Commander.

Note

α

- After presetting the channels automatically, you can check which channels are stored on which programme positions.
 For details, see "Using the Programme Table" on page 17.
- You can sort the programme positions to have them appear on screen in the order you like. For details, see "Sorting the Programme Positions" on page 11.

You can preset the channels (up to 100 channels) by choosing either the automatic or manual method.

The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.





Preset channels automatically

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with △+ or ▽- and press OK. The PRESET menu appears, (See Fig. 5.)
- 3 Select "Auto Programme" with △+ or ∇- and press OK. The AUTO PROGRAMME menu appears. (See Fig. 6.)
- 4 Press OK. Select if necessary the TV broadcast system with △+ or ∇- and press OK. (B/G for western European countries. D/K for eastern European countries, L for France and I for the United Kingdom). The first element of the "PROG" number will be displayed in red on a black background.
- 5 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with △+ or ▽─ or the number buttons (e.g. For "17", select "1") and press OK.

The second element of "PROG" will be displayed in red on a black background

- 6 Select the second element of the double-digit number with △+ or ∇- or the number buttons (e.g. For "17", select "7") and press OK. (See Fig. 7.)
- 7 Using △+ or ▽-, select C (to start presetting from the normal channels) or S (to start presetting from the cable channels) and press OK.

The automatic channel presetting starts.

When presetting is finished, the preset menu reappears. (See Fig. 8.). All available channels are now stored on successive number buttons.

If you want to change to another broadcasting system, repeat 3-6.

8 Press MENU to return to TV picture.



Fig. 5



Fig. 6

SYB	PROG	CH	
B/G	1	C35	

Fig. 7

Fig. 8

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to

if you have made a mistake
Press ← to go back to the previous position.

various video input

sources.

To return to the main menu
Keep pressing ←.

To tune in a channel by

After selecting F in step

6. enter three digits

using the number

frequency

buttons.

Preset channels manually

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with △+ or ▽- and press OK. The PRESET menu appears. (See Fig. 9.)
- 3 Select "Manual Programme Preset" with △+ or ▽- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 10.)
- 4 Using △+ or ▽-, select the programme position (number button) to which you want to preset a channel, and press OK.
- 5 Select, if necessary, the TV broadcast system (B/G for western European countries, D/K for eastern European countries, L for France and I for the United Kingdom) or a video input source (EXT) with △+ or ▽-.
 Then press OK. The CH position will be displayed in radios a black.

Then press OK. The CH position will be displayed in red on a black background. (See Fig. 11.)

6 Using △+ or ▽-, select C (to preset a regular channel), S (to preset a cable channel), or F (to tune in by frequency) and press OK.

The first element of the "CH" number will be displayed in red on a black background.

If you have selected EXT in step 4, select the video input source with \triangle + or ∇ -. (See Fig.12.)

There are two ways to preset channels. If you know the channel number, go to step "7-Manual".

or

If you don't know the channel number, go to step "8-Search"

7 Manual

 Select the first element of the "CH" number with △+ ▽- or the number buttons and press OK.
 The second element of the "CH" number will be displayed in red on a black background.

-b Select the second element of the number with △+ ▽- or the

number buttons.
The selected number appears. (See Fig.13.)

-c Press OK.

Press CK.

The "SEARCH" position is highlighted and the selected channel is now stored. (See Fig. 14.)

- -d Press OK until the cursor appears by the next programme position.
- Repeat steps 3 to 7 to preset other channels.

8 Search

- -a Press OK repeatedly until the colour of the SEARCH position changes.
- -b Start searching for the channel with △+ (up) or ▽-(down). The CH position changes colour. (See Fig. 15.) The CH number starts counting up or downwards. When a channel is found, it stops. (See Fig. 16.)
- Press OK if you want to store this channel. If not, press △+ or ▽to continue channel searching.
- -d Press OK until the cursor appears by the next programme position.
- -e Repeat steps 3 to 7 to preset other channels.
- Press MENU to return to TV picture.

Auto Programme
Manual Programme Preset
Programme Sorting
Personal Sorting
Personal Lock
Belect

Fig. 9

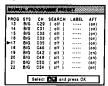


Fig. 10

_						
17	B/G	C 🗰	(off)	****	(00)

Fig. 11

18 EXT AV1 -----

17 B/G C (off) ····· (on)

Fig. 13

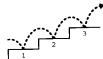
Fig. 14

17 B/G C35 (▲▼) (on)

17 B/G C37 (▲▼) ····· (on)

Fig. 16

Additional Presetting Functions



This section shows you additional presetting functions such as sorting or skipping programme positions, captioning a station name, manual fine-tuning, and using the parental lock.

You can skip this section, if not needed.

Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

PROGRAMME SORTING



9

Sorting Programme Positions

With this function, you can exchange the programme positions to a preferable order.

- Press MENU to display the main menu.
- Select "Preset" with \triangle + or ∇ and press OK. The PRESET menu appears.
- Select "Programme Sorting" with \triangle + or ∇ and press OK. The PROGRAMME SORTING menu appears. (See Fig. 17.)
- 4 Using △+ or ▽-, select the programme position you want to move to another and press OK.

The colour of the selected position changes. (See Fig. 18.)

- 5 Using △+ or ▽-, select the programme position to which you want to move the channel of the programme position selected in step 4 and press OK. Now the two programme positions have been sorted, (See Fig. 19.)
- Repeat steps 4 and 5 to sort other programme positions.

Tuning in to a Channel

7 Press MENU to return to TV picture.

|--|

PACG	CH	LABEL	PROG	CH	LABE
▶ 1	C15	BBC1	9	COZ	
2	C07	BBC2	10	CO2	***
3	C14	ITY	11	COS	
i			12	C03	
5			13		
ė		***	14		
7		C4	15		
8	CDS	BBC1	16		

Fig. 19

Temporarily

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- Press C on the Remote Commander. The indication "C" appears on the screen. (See Fig. 20.)
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.

 	-	 		
			с	-

Fig. 20

MANUAL PROGRAMME

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/- buttons. However, the skipped programmes may still be called up when you use the number

- Press MENU to display the main menu.
- Select "Preset" with △+ or ▽- and press OK. The PRESET menu appears.
- Select "Manual Programme Preset" with △+ or ▽- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig.21.)
- 4 Using △+ or ▽-, select the programme position which you want to skip and press OK.

The "SYS" position changes colour.

If you have made a Press - to go back to the previous position.

To go back to main Keep pressing -

- 5 Press △+ or ▽- until "----" appears in the SYSTEM position. (See Fig. 22.)
- Press OK. (See Fig.23.) When you select programmes using the PROGR+/- buttons, the programme position will be skipped.
- 7 Repeat steps 4 to 6 to skip other programme positions.
- 8 Press MENU to return to TV picture.



PROG	SYS	CH	SEARCH	LABEL	AF
13	B/G	C29	(off)		[01
14	B/G	C31	f off)	****	[01
15	B/G	C32	(off)		(0)
16	B/G	C33	(off)		tor
17	B/G	C40	(off)		for
▶ 16	B/G	C35	(off)		(01
19	B/G	C42	(off)		(er
20	R/G	C46	i off i		for
21	B/G	C50	(off)	*****	(er
22	B/G	C54	(off)		(er

ng. 21	
19	
ig. 22	
▶ 19	

Fig. 23

LANGAL PROGRAMME

Captioning a Station Name

Programme names are usually automatically taken from Teletext if available. You can also "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- Press MENU to display the main menu.
- Select "Preset" with \triangle + or ∇ and press OK. The PRESET menu appears.
- Select "Manual Programme Preset" with △+ or ▽- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig.
- 4 Using \triangle + or ∇ -, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.
- Select a letter or number with \triangle + or ∇ and press OK. The next element will be highlighted. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 25.)
- 6 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 26.)
- Repeat steps 5 and 6 to caption names for other channels.
- Press MENU to return to TV picture.



20 B/G C46 (olf) SONY-(on)

Fig. 26

the previous position To go back to main Keep pressing -

For programme itions beyond 15

automatically

The display scrolls

If you have made a

Press - to go back to

12

MANUAL PROGRAMME

To reactivate AFT

beginning and select

Repeat from the

"ON" in step 5.

(automatic fine tuning)

PARENTAL LOCK

If you try to select a

programme that has

"LOCKED" appears on

the blank TV screen.

been blocked

The message

Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with ∆+ or ∇- and press OK.

The PRESET menu appears.

3 Select "Manual Program Preset" with ∆+ or ∇- and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 27.)

4 Using Δ + or ∇ -, select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour. Fine-tune the channel with Δ + or ∇ - so that you get the best TV

reception. As you press the cursor buttons, the frequency changes from - 15 to + 15. (See Fig. 28.) 6 After fine tuning, press OK. The cursor appears beside the next programme position (at the left

- margin). (See Fig. 29.) Now the fine-tuned level is stored. Repeat steps 4 to 6 to fine-tune other channels.
- 8 Press MENU to return to TV picture.

CH SEARCH LABEL AFT 8/G C29 (off) 8/G C31 (off) 8/G C32 (off) 8/G C33 (off) 8/G C40 (off) 8/G C40 (off) 8/G C46 (off) 8/G C46 (off) 8/G C46 (off) 8/G C50 (off) 8/G C50 (off) Select A and press OK

Fig. 27

20	B/G	C45	(off)	SONY.	(-3)
_					

r	ıg	 "

Ŀ	20 21	B/G B/G	G45 G45	(aff)	SONY-	(-3) (on)
Fig	. 29	•				

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with ∆+ or ∇- and Press OK. The PRESET menu appears.
- Select "Parental Lock" with ∆+ or ∇- and press OK.
- The PARENTAL LOCK menu appears. (See Fig. 30.) 4 Using ∆+ or ∇-, select the programme position you want to block
 - and press OK. The CH and LABEL change colour and the TV picture disappears indicating that this programme is now blocked. (See Fig. 31.)
- Repeat step 4 to block other programme positions.
- 6 Press MENU to return to TV picture.

Cancelling blocking

- On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ + or ∇ -.
- 2 Press OK. The CH and LABEL change colour to normal colour and the TV picture appears indicating that the blocking has been cancelled.

ROG	CH	LABEL	PROG	CH	LABEL
- 0	AVI	VHS	8	C38	*****
1	C25	ARD	9	C39	
2	C42	ZDF	10	C40	
3	C26	RTL	11	S41	
à.	C34	SAT 1	12	\$42	
5	C35		13	543	
6	C36	*****	14	\$44	
7	C37		15	545	

Fig. 30

PROG	СH	LABEL	PROG	CH	LABEL
₽ 0	AV1	VHS			
1	C25	ARD			
2	C42	ZDF			
3	C26	RTL			

Fig. 31

Watching the TV

 \bigcirc \bigcirc \bigcirc

 \bigcirc \bigcirc \bigcirc

 \odot \odot

7 9 9

(⊕ ⊚

TV. Most of the operations can be done using the simple side of the Remote Commander. Switching the TV on and off

Switching on

Operating Instructions

Depress @ on the TV.

Switching off temporarily

Press & on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

This section explains the basic functions you use while watching

To switch on again

Press O. PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress ① on the TV.

Selecting TV Programmes

Press PROGR +/- or press the number buttons.

To select a double-digit number

Press -/--, then the numbers. For example, If you want to choose 23, press -/--, 2, and 3

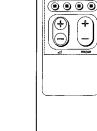
Adjusting the Volume

Press ⊿ +/-.

Operating the TV Using the Buttons on the TV

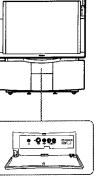
With the -/+ buttons on the TV, you can select programmes, adjust the volume, and select video input sources.

- Press the P-V- Dutton repeatedly until the programme number. A (for volume), or \rightarrow) (for video input picture) appears. Then adjust with the -/+ buttons.
- Press the -/+ buttons to switch on the TV from the standby mode.
- Press -/+ simultaneously to reset picture and sound controls to the factory preset level (RESET function).



If no picture appears when you depress ① on the TV and if the standby indicator on the TV is lit, the TV is in

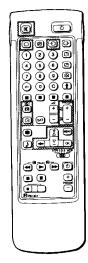
standby mode. Press O or one of the number buttons to switch it on



0

For details of the teletext operation, refer to page 19.

For details of the video input picture, refer to page 24.



To make the Programme Table Press MENU.

Watching Teletext or Video Input

Watching teletext

- 1 Press (2) to view the teletext.
- 2 For teletext operation, enter a 3-digit page number with the number buttons to select a page.
 For fastext operation, press one of the coloured buttons.
 For both operations, press @ (PAGE +) for the next page or @ (PAGE) for the preceding page.
- 3 To go back to the normal TV picture, press O.

Watching a video input picture

- 1 Press repeatedly until the desired video input appears.
- 2 To go back to the normal TV picture, press O.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press once to display all the indications. They will disappear after a few seconds.
- Press
 ⊕ twice to have the programme number and label stay on screen. Press twice again to make the indications disappear.

Muting the sound

Press .

To resume normal sound, press ≪ again.

Displaying the time

Press [®]. This function is available only when teletext is broadcast. To make the time display disappear, press [®] again.

Displaying of the Programme Table

Press OK. A Programme Table will be displayed on the right side of the TV screen (See. Fig. 32.)

Selecting of TV programmes

Press PROGR +/- or select the desired programme position using Δ + or ∇ -, and press OK.

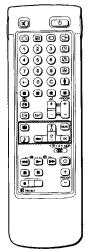
	ABD	
3	TV5	
4	C02	
5	C15	
6	RTL	
7		
9	AV1	
10	MTV	
		4 CD2 5 C15 6 RTL 7 SKY 8 S34 9 AV1

Fig. 32

Adjusting and Setting the TV Using the Menu

PICTURE CONTROL

SOUND CONTROL



Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste, in addition, you can set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones, or individually adjust and store the volume level of each channel (volume offset).

1 Press ● (for picture) or ♪ (for sound) on the remote Commander.

Press MENU and select "Picture Control" or "Sound Control", then press OK.

The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 33 or Fig. 34.)

- 2 Using △+ or ∇-, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 35.)
- 3 Adjust the setting with △+ or ∇ and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 36.) For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to return to TV picture.



Fig. 33

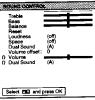


Fig. 34



Fig. 36

If you have made a

Press to go back to the previous position.

To go back to the main menu
Keep pressing ←.

Note

HUE is only available for NTSC colour systems and RESOLUTION does not work for SECAM colour systems.

Note on LINE OUT
The audio level and the
dual sound mode output
from the G+ jack on the
rear correspond to the
Headphone VOLUME
and DUAL SOUND

When watching a video input picture
You can select DUAL SOUND to change the sound.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less I More
Brightness	Darker ——— Brighter
Colour	Less — More
Hue	Greenish —— Reddish
Sharpness	Softer
Reset	Resets picture to the factory preset levels.
Resolution	(normal) (high) Obtain a higher picture quality

SOUND CONTROL	Effect			
Treble	Less — More			
Bass	Less — I More			
Balance	More left — I— More right			
Reset	Resets sound to the factory preset levels.			
Loudness	off: Normal on: When listening to low volume sound.			
Space	off: Normal on: Obtain acoustic sound effect.			
Dual Sound	A: left channel B: right channel Stereo mono			
	The selected mode of the A-CD-B Indicator on the TV lights up			
	(For NICAM broadcasts, see next page)			
Volume offset	(-7) Less 0 (+7) More			
Headphones:				
Ω Volume	Less —I— More			
Ω Dual Sound	A: left channel B: right channel Stereo mono			

Selecting Nicam Broadcasts*

This Sony TV has been designed to select stereo Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-CD-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either or these by first following the instructions explained on page 16.

Service Being Broadcast	Action		Ir	dicatio	n of the T	/
	*****	Stere	o Nicam	N	lono	
Stereo	Press Δ+ or ∇−	А- О- В	*	А -0-В	0	

Press ∆+ or ∇- again to return to stereo Nicam (Mono 2-Channel)

		Chann	el A Nicam	Chann	nel 8 Nicam		Mono
Bilingue	Press	Α Θ	*	A		A -8	0
	Δ+ or ∇−	В	0	В	*	В	0

Press △+ or ∇- again to return to channel A Nicam

PROGRAMME TABLE

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

- 1 Press MENU to display the main menu.
- 2 Select "Programme Table" with ∆+ or ∇- and press OK. The PROGRAMME TABLE menu appears. (See Fig. 37.)
- 3 Select the programme number with ∆+ or ∇- and press OK. The selected programme appears.
- 4 To scroll to higher programme numbers, press ∇-.
- 5 Press MENU to return to TV picture.

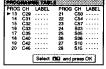


Fig. 37

	en.					
▶ 5	deep	Timer	(off)			
S	elect	100	and pre	es OK]	

Fig. 38

TIMER

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- 1 Press MENU to display the main menu.
- 2 Select "Timer" with △+ or ∇- and press OK. The TIMER menu appears. (See Fig. 38.)

To switch off the timer Select "OFF" in step 3.

To check the remaining time Press ①.

- Press OK
- The time period option changes colour.
- 4 Select the time period with △+ or ∇-. The time period (in minutes) changes as follows:

 $10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90$

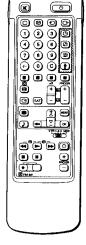
↑_____OFF____

5 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts

One minute before the TV switches into standby mode, a message is displayed on the screen.

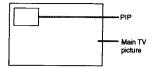
6 Press MENU to return to TV picture.

PIP (Picture In Picture)



Note RGB input source cannot be displayed in PIP.

With this function you can display a "PIP screen" (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 23.



Switching PIP on and off

Press (3.

The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

To Switch PIP off

Press 🕒 again.

Selecting a PIP source

Press

The symbol **t** will be displayed at the bottom, left-hand corner of the screen.

Press T repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

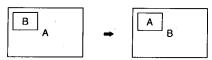
Note

If no video source has been connected, the PIP picture will be noisy.

Swapping screens

Press (2).

The main screen will switch the picture with the PIP screen.



Notes

- If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press t and then the programme number buttons or PROGR +/-.
- Swapping screens takes about 2 seconds after pressing (A).
- After swapping screens if the colour systems of the main and PIP pictures are different, the PIP picture first appears in black and white and then in colour.

Changing the position of the PIP

Press repeatedly to change the position of the PIP screen within the main screen. There are four different positions available

Displaying of PIP within Teletext

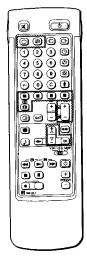
Press while teletext is switched on.
The PIP screen will be displayed on the right side of the TV screen,

the reduced teletext page will be displayed on the left side.

Press again to make the PIP screen disappear.



^{*}Depending on availability of service.



Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander

You can switch teletext on and off, operate Fastext, and directly select page numbers.

Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- 1 Select the TV channel which carries the teletext broadcast you want to watch.
- 2 Press (a) to switch on teletext.

A teletext page will be displayed (usually the index page). If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

To switch teletext off

Press O.

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

With page-catching

- Select a teletext page with a page overview (e.g. index page).
- 2 Press OK. "Page catching" will be displayed on the information line. Using $\Delta +$ or $\nabla -$, select the desired page and press OK. The required page number flashes. The requested page will appear in a few seconds.

Press (2) to resume normal teletext operation.

Accessing next or preceding page

Press @ (PAGE+) or @ (PAGE-). The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press
 once in teletext mode or twice in TV mode.
- Press @ again to resume normal teletext reception.

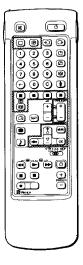
Preventing a teletext page from being updated

- Press ⊕ (HOLD). The HOLD symbol "⊕" is displayed on the information line.
- Press (5) to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



Some of the features may not be available depending on the Teletext service.

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- Press MENU. The menu will be superimposed on the teletext display. (See Fig. 39.)
- 2 Using Δ + or ∇ -, select the teletext function you want and press OK. (See Fig. 40.)

USER PAGES/PRESET USER PAGES

See page 22 for information about presetting and operating the user pages.

The index will give you an overview of the contents of the teletext and the page numbers.

DUAL PAGE MODE

After having selected the function two succeeding teletext pages will be displayed next to each other on the TV screen.

Accessing next or preceding page

Press PROGR +/-.

Page Catching

Press OK. Page Catching is now active on the left teletext page (See also page 19).

While you select a page number or the left page using Δ + or ∇ -, the corresponding teletext page will be displayed on the right side of the TV screen.

If you press OK again the right teletext page will appear on the left.

To cancel the function:

Press -.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down the screen. After having selected the function, an information line Top/Bottom/Full will be displayed. (See Fig. 41.)

Press Δ + for Top to enlarge the upper half. For Bottom keep pressing V-, to enlarge the lower half. Press OK for Full to resume the normal size.

Press @ to resume normal teletext reception.

After selecting the function, you can watch a TV programme while waiting for a teletext page to be captured (the symbol changes colour). (See Fig. 42.)

Press (a) to view the requested page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.



Fig. 39



Fig. 40



Fig. 41

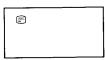


Fig. 42

REVEAL

Sometimes Pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After selecting the function, an information line Reveal on/off will be displayed. (See Fig. 43.)

Using Δ + or ∇ -, select ON to reveal the information or OFF to conceal it again.

Press @ to resume normal teletext reception.

Press OK to select "OFF" for the TIME PAGE setting to cancel the request.

TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

- 1 Press OK. An information window will be displayed at the bottom of the page, Using △+ or ∇−, select "ON" and press OK.
- 2 To select the desired page, enter three digits for the page number (e.g. 452) using the number buttons.
- 3 To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons and press MENU. The selected time is displayed at the top in the left-hand corner. At the requested time, the page will be displayed. Use the number buttons to select a new page.

SUBPAGE

To cancel the request Select SUBPAGE and press OK. You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR +/- or the number buttons (e.g. enter 0002 for the second page of a sequence).



Fig. 43

If two broadcasting stations use the same Teletext You can preset one bank to 2 different

programme positions.

User Page Bank System

You can store up to 30 pages in the "teletext page bank system", in this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 "banks" (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

- 1 Press
 (if Teletext is not already on) and MENU to show the TELETEXT MENU display.
- 2 Select "Preset User Pages" with ∆+ or ∇- and press OK.
- 3 Select the desired bank with ∆+ or ∇- and press OK. The cursor will go to the first position (p1) of the preferred pages.
- 4 Input the three digits of your first preferred page with the number buttons.

The cursor will go to the second position.

- 5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number.
- 6 Select "Allocate Bank" with ∆+ or ∇- and press OK.
- 7 Select the programme position on which you want to store the preset pages with Δ+ or ∇-- and press OK. (See Fig. 44)
- 8 Select the desired bank with ∆+ or ∇− (Banks A to E are available) and press OK.
- 9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages.

- 1 Select MENU.
- 2 Select "User Pages" with ∆+ or ∇ and press OK. A table of the stored preferred pages will be displayed. (See Fig. 45.)
- 3 Select the desired page with ∆+ or ∇ and press OK. The page will be displayed after some seconds.

or

You can use the coloured buttons on the Remote Commander to have quick access to the first four User pages. Page 1 corresponds to the red button, P 2 to the green one, P 3 to the yellow one and P4 to the blue button.

To select the desired page press the respective coloured button while you are in TV mode. Now the Page number of this teletext page will appear in white at the top in the left-handed corrier of the TV screen. When the page number changes colour the page is available. Press the coloured button again to display the page.



Fig. 44

-	PAGE 30	ıń.	 	
	PAGE 20			
	PAGE 20	13		
	PAGE 50	PQ .		
	PAGE 23	4		
	PAGE 15	9		

Fig. 4

Connecting and Operating Optional Equipment

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VTR, video disc player, and stereo system.

To connect a VTR using the 'I' terminal Connect the sorial output of the VTR to the aerial terminal 'I' of the TV.
We recommend that you tune in the video signal to programme number '0''. For details see

manually" on page 10.

If the picture or the sound is distorted Move the VTR away from the TV.

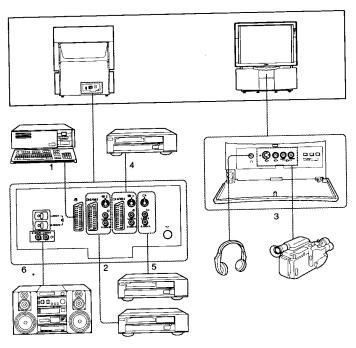
"Preset channels

S/video Input(Y/C input) Video signals may be separated into Y (Iuminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially furninance). This TV is equipped with 3 S Video input jacks through which these

When connecting a monaural VTR
Connect only the white

→ jack to both the TV and VTR.

separated signals can be input directly.



Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 Normal audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
5 No inputs	S/video/audio signal displayed on TV screen (monitor out)
6 No inputs	Audio signal (variable)

Selecting input with PROGR +/- or number buttons

You can preset video input sources to the programme positions so that you can select them with PROGR +/-or number buttons. For details, see "Preset channels manually" on page 10.



Selecting input and output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting input

Press - repeatedly to select the input source.

The symbol of the selected input source will appear. (See Fig. 46.)

To go back to the normal TV picture

Press ().

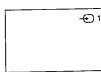


Fig. 46

Input modes

Symbol	Input signal
_ Ð 1	Audio/video input through the - ☐ 1 connector
-€")	Audio/RGB input through the - 1 connector
_O 2	Audio/video input through the ⊕ 2/ ⊕ 2 connector
⊸® 2	Audio/S video input through the 🕒 2/ 🗐 2 or 🗐 2 connector (4-pin connector)
- ⊕ 3	Audio/video input through → 3 and → 3 on the front
_® 3	Audio/S video input through the →⑤ 3 (4-pin connector) and → 3 connectors
-Ð 4	Audio/video input through the
⊸® 4	Audio/S video input through the ②+ 4 / →⑧ 4 or →⑥ 4 connector(4-pin connector)

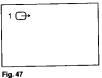
You can also select the input mode using the P P+2++ and -/+ buttons on the TV. In this case, first select -- and then press -/+ buttons to select the input.

Selecting the output

The 3 2/8 2 connector outputs the source input from the other connectors.

Press - repeatedly to select the output.

The symbol of the selected output source appears. (See Fig. 47.)



Output modes

Symbol	⊕ 2/ –® 2 connector outputs
1 🕞	Audio/video signal from the _ 1 connector
2 🕞	Audio/video signal from the ←2/ ←6 connector
2 ⑤→	Audio/S video signal from the ←2/ ←⑤ 2 or ー⑤ 2 connector (4 pin)
3 🕩	Audio/video signal from the - € 3, - € 3 connectors
3 🕪	Audio/S video signal from the →⑤ 3, → 3 connectors
4 🗇	Audio/video signal from the → 4/ → 4 connector
4 ⑤→	Audio/S video signal from the → 4/ → 4 or → 4 connector (4 pin)
tv⊖	Audio/video signal from the Traerial terminal

Checking and selecting the input and output sources using the menu You can display the menu to see which input sources are se

You can display the menu to see which input sources are selected for the TV screen and PIP screen, and which output source is selected. You can also select them on the menu display.

- 1 Press MENU to display the main menu.
- 2 Select "Video Connection" with △+ or ∇- and press OK. The VIDEO CONNECTION menu appears. (See Fig. 48.) You can see which source is selected for the TV and PIP input and for the output. If you want to select the input and output on this menu, go to the next step.
- 3 Select TV-screen (input source for the TV screen), PIP (input source for the PIP screen), or Output (output source) with ∆+ or ∇- and press OK.
- One of the source items changes colour. (See Fig. 49.)
- 4 Select the desired source with △+ or ∇−. (See Fig. 50.) For details about each source, see the table on page 24.
- For details about each source, see the table on page 24 5 Press OK.
- The selected source is confirmed, and the cursor appears. (See Fig. 51.)
- 6 Repeat steps 2 to 4 to select the source for other inputs or outputs.
- 7 Press MENU to return to TV picture.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm and VHS VTRs and video disc players.

Tuning the Remote Commander to the equipment

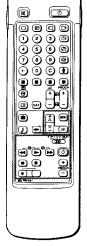
1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

VTR1: Beta VTR
VTR2: 8 mm VTR
VTR3: VHS VTR
MDP: Video disc player

2 Use the buttons indicated in the Illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



When recording when you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

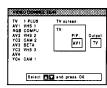


Fig. 48

TV 1 PLUS		TV screen:
AVI VHS I		

Fig. 49

AV2 VHS 2 YC2 CAM 2 AV3 BETA YC3 VHS 3	PIP: BBC 1	
---	---------------	--

Fig. 50



Fig. 51

Troubleshooting

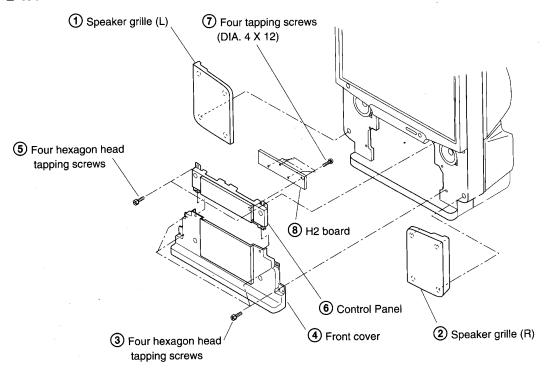
Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	Plug in the TV in. Press ⊕ on the TV (if ⊕ indicator is on, press □ or a programme number on the Remote Commander). Check the aerial connection. Check if the selected video source is on. Turn the TV off for three or four seconds and then turn it on again using ⊕.
Poor or no picture (screen is dark), but sound is OK	 Press on the the PICTURE CONTROL menu and adjust the BRIGHT- NESS, CONTRAST and COLOUR.
Pour picture quality when watching a RGB video source	Press - repeatedly to select
Good picture but no sound	Press ⊿ +. If ≪ is displayed on the screen, press ≪.
No colour for colour programmes	 Press ■ to enter the PICTURE CONTROL menu, select RESET, then press OK.
Remote Commander does not function	Replace the battery.

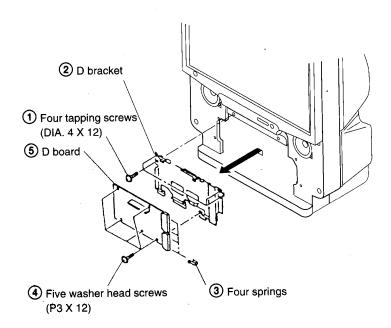
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

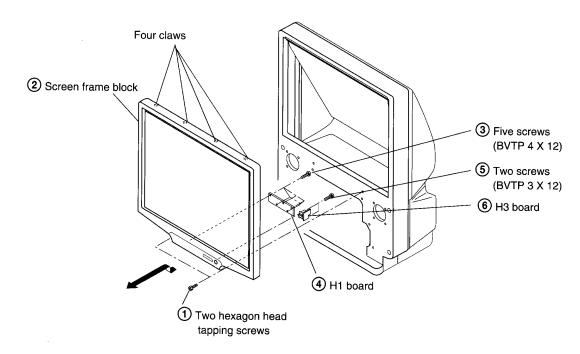
2-1. H2 BOARD REMOVAL



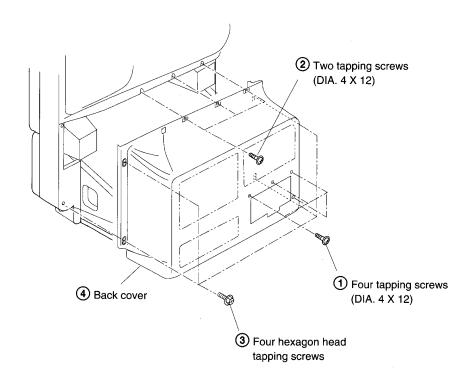
2-2. D BOARD REMOVAL



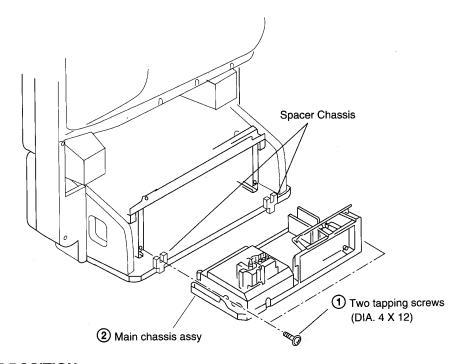
2-3. H1 AND H3 BOARD REMOVAL



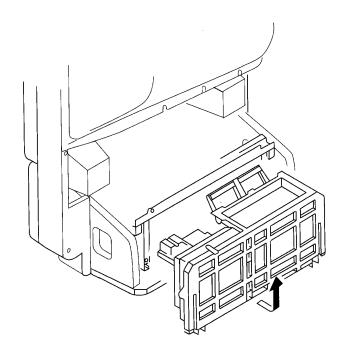
2-4. BACK COVER REMOVAL



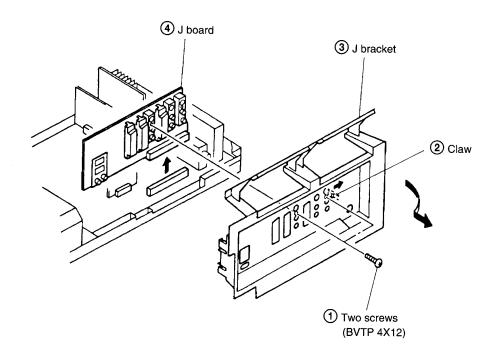
2-5. MAIN CHASSIS ASSY REMOVAL



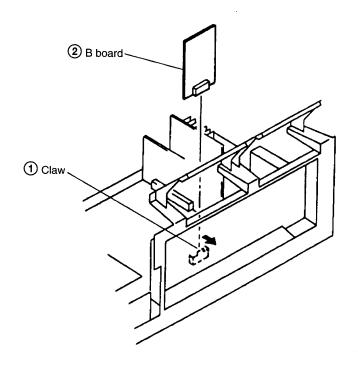
2-6. SERVICE POSITION

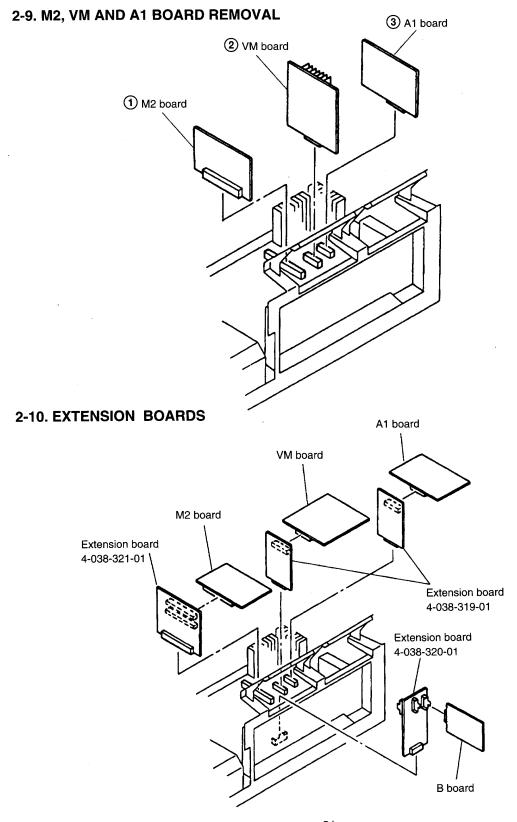


2-7. J BRACKET AND J BOARD REMOVAL

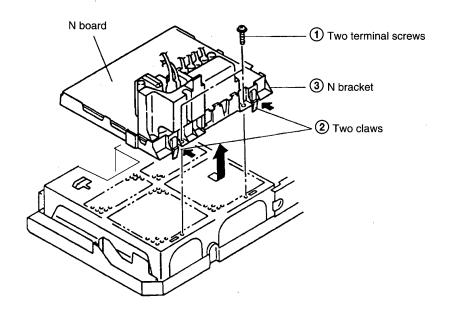


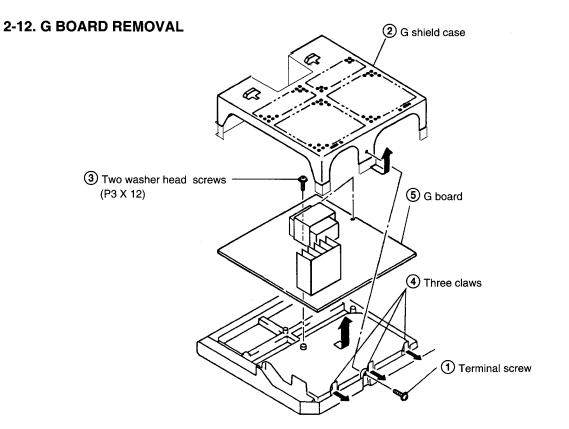
2-8. B BOARD REMOVAL



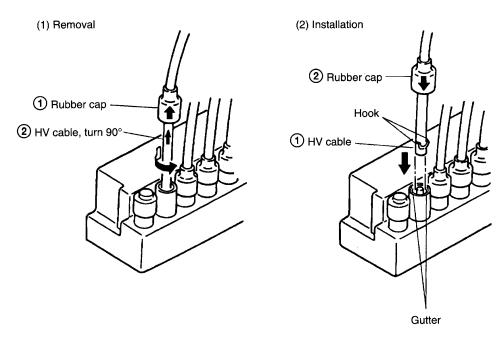


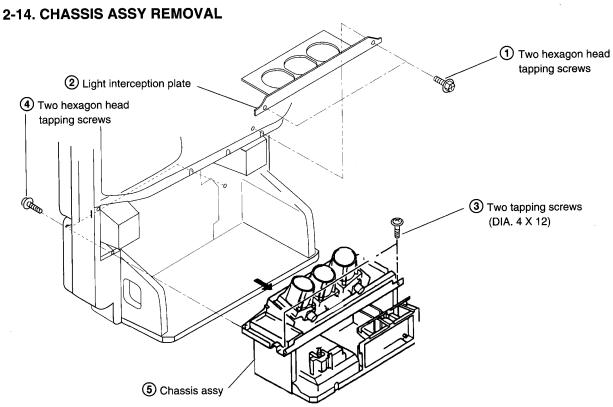
2-11. N BRACKET REMOVAL

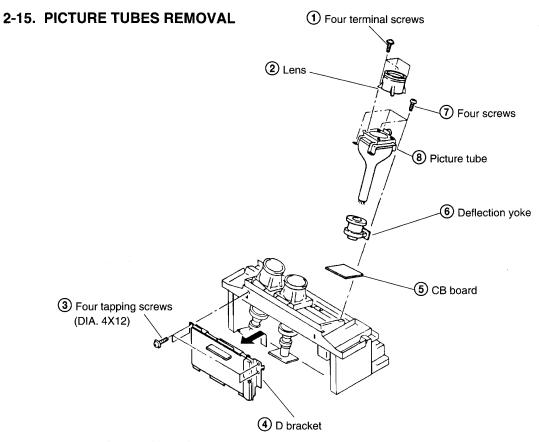




2-13. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION



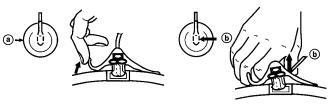




REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.

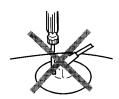
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of the anode-cap with sharp shaped material!
- ② Don't press the rubber hardly hardly not to hurt inside of anode-caps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

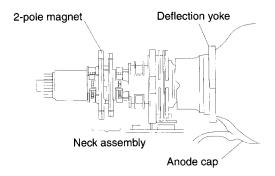




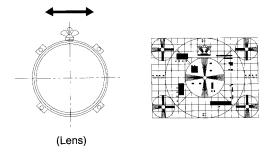
SECTION 3 SET - UP ADJUSTMENTS

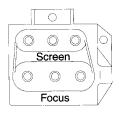
3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistor (VR) and the position VR (CENTER VR) to mechanical center.
- Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.



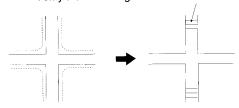
- 3. Input a monoscope signal. Set BRIGHTNESS to 50% and PICTURE to minimum. Make rough adjustments so that the 20IRE of the monoscope signal becomes faintly luminous.
- Set the PICTURE and BRIGHTNESS to maximum.
 Press the commander menu button. Select CONVERGENCE to display the test signal.
- Enter into the service mode. Select R MUTE (ITEM 35)
 of CXA1587S to cut off red output.
 Similarly, select B MUTE (ITEM 37) to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.



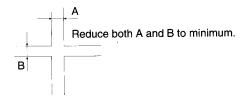


(Focus block)

Verify that scanning lines are visible.



Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



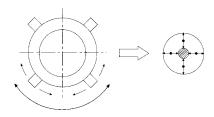
8. Repeat step 7 a number of times to improve tracking and obtain optimum lens focus. Then tighten the lens screws.

3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

- 1. Input a monoscope signal.
- Enter into the service mode. Select R MUTE (ITEM 35)
 of CXA1587S to cut off the red output.
 Similarly, select B MUTE (ITEM 37) of CXA1587S to cut
 off the blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust the DY positions for red and blue outputs in the same way.

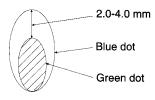
3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input a dot signal from the pattern generator.
- Enter into service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off red output.
 Similarly, select B MUTE (ITEM 37) of CXA1587S to cut off blue output.
- Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise to brighten the point in the dot.
- Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.



3-4. DE-FOCUS ADJUSTMENT (BLUE)

- 1. Input a dot signal from the pattern generator.
- Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the diameter of the blue dot becomes between 2 and 4 mm bigger than the green dot.

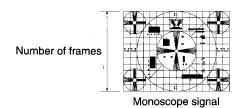


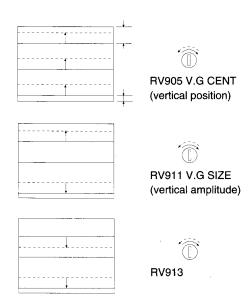
3-5. GREEN PICTURE ADJUSTMENTS

- 1. Input a monoscope signal.
- Enter into service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off the red output. Similarly, select B MUTE (ITEM 37) of CXA1587S to cut off the blue output.
- Turn RV913, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain optimum vertical linearity.

Then turn RV911, the vertical green amplitude variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 frames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





4. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



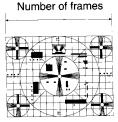
 Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.
 Then turn RV908, the horizontal green amplitude to 15.6 frames.

Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.

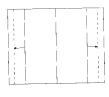
6. Input a cross hatch signal from the pattern generator. Turn the vertical green (V.G) and the horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

- 1. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. [PIN (pin warp)] \rightarrow [SUB BOW] \rightarrow [BOW]
- 3. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- 4. [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 * For vertical (V) only.
- 5. [V-M.PIN (vertical middle pin warp)] → [V/WING (vertical wing warp)]
 - * For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]
 - * For horizontal (H) only.



Monoscope signal





RV908 H.G SIZE (horizontal position)





RV916 H.G LIN (horizontal linearity)

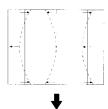
(Dot motion)



RV932 H.G BOW (horizontal green bow)



RV941 H.G PIN (horizontal green pin warp)



RV950 H.G SUB BOW (horizontal green sub bow)



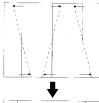
V.G BOW	RV935
V.G PIN	RV938
V.G SUB BOW	RV953



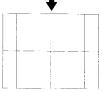
RV920 H.G SKEW (horizontal green skew)



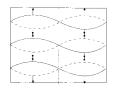
RV925 H.G KEWS (horizontal green trapezoid)



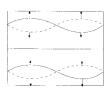
RV944 H.G SUB SKEW (horizontal green sub skew)



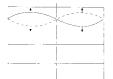
V.G SKEW	RV923
V.G KEYS	RV929
V.G SUB SKEW.	RV947



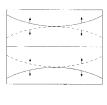
RV962 V-M-WAVE (vertical middle sine wave warp)



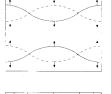
RV975 V-WAVE-A (vertical upper and lower sine wave warp)



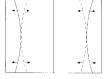
RV978 V-WAVE-U (vertical upper sine wave warp)



RV980 V-M. PIN (vertical middle pin warp) * Common in red, green, and blue



RV957 V/WING (wing warp) * Common in red, green, and blue



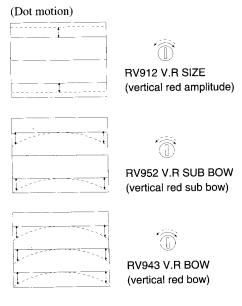
RV956 H/M. PIN (vertical middle pin warp)

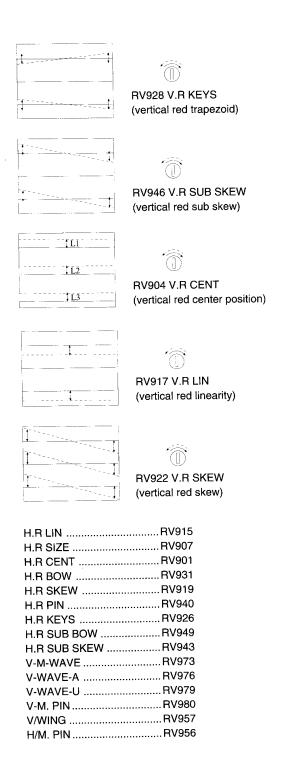
3-6. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input a cross hatch signal from the pattern generator.
- 2. Enter into service mode. Select B MUTE (ITEM 37) of CXA1587S to cut off the blue output.
- 3. Turn the vertical red (V. R) and horizontal red (H. R) variable resistors (VRs) to adjust red picture convergence in relation to the green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
- 4. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- [M. WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 * For vertical (V) only.





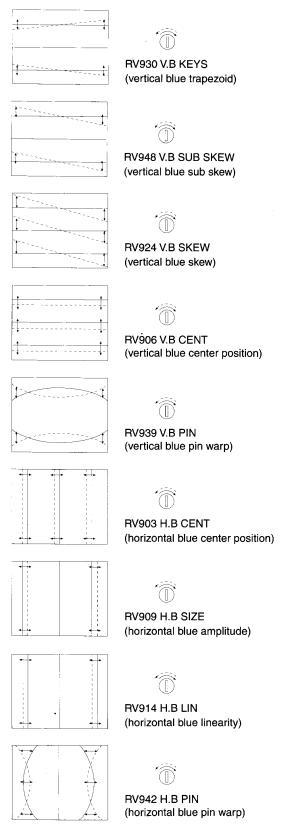
3-7. GREEN AND BLUE REGISTRATION ADJUSTMENTS

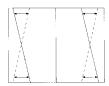
- 1. Input a cross hatch signal from the pattern generator.
- Enter into service mode. Select R MUTE (ITEM 35) of CXA1587S to cut off the red output.
- 3. Turn the vertical blue (V. B) and horizontal blue (H. B) variable resistors (VRs) to adjust blue picture convergence in relation to the green picture according to the following steps:

(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
- 4. $[KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]$
- 5. [M. WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 * For vertical (V) only.

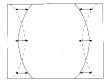
RV912 V.B SIZE (vertical blue amplitude) RV918 V.B LIN (vertical blue linearity) RV954 V.B SUB BOW (vertical bllue sub bow) RV936 V.B BOW (vertical blue bow)







RV954 H.B SUB SKEW (horizontal blue sub skew)



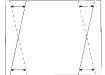


RV951 H.B SUB BOW (horizontal blue sub bow)



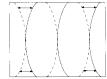


RV921 H.B SKEW (horizontal blue skew)



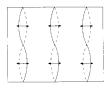


RV927 H.B KEYS (horizontzl blue trapezoid)



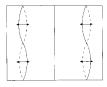


RV933 H.B BOW (horizontal blue bow)





RV981
* Common in red, green, and blue





RV982
* Common in red, green, and blue

H/M PIN	RV958
M. WAVE	RV961
WAVE-A	RV974
WAVE-U	RV977

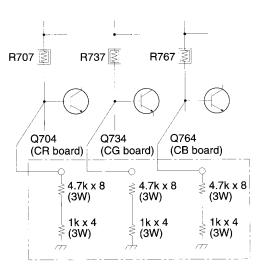
3-8. REGISTRATION ADJUSTMENTS

- 1. Output red, blue, and green.
- 2. Output cross hatch and monoscope signals to check registration. Also check focus.

3-9. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Remove the connectors CR-15, CG-16, and CB-17.
- 3. Fit jigs between R707, R737 and R767 and ground.



* Resistors in each jig are connected in series.

- 4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

2) White balance adjustments (09, 14, 15, 16, 17)

- 1. Input a monoscope signal and enter into service mode.
- Select the picture quality adjustment from the menu and set PICTURE to minimum. Select the CXA1587S service item.
- Use the commander to adjust 09 (SUB BRIGHT) so that 10IRE of the monoscope pattern becomes faintly luminous.
- 4. Input an all white signal.
- 5. Set PICTURE to minimum. Adjust item 16 (green cut off) and 15 (blue drive) to obtain an optimum white balance.
- 6. Set PICTURE to maximum. Adjust item 14 (green drive) and 15 (blue drive) to obtain an optimum white balance.
- 7. Repeat the white balance adjustment alternating PICTURE settings at the minimum and maximum.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-831.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

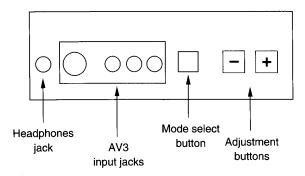
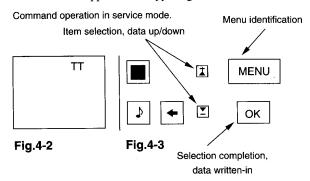


Fig.4-1

2. "TT" will appear at the upper right corner of the screen.



3. Press the MENU button on the remote commander to obtain the menu on the screen.

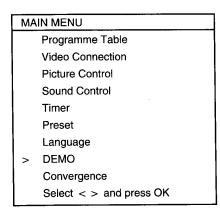


Fig.4-4

- 5. Press OK button to proceed to the next menu.
- The menu of Fig. 4-5 will appear on the screen. Select the DEVICE corresponding to the adjustment item from the table on the next page.

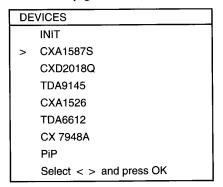


Fig 4-5

7. If adjustment item is CXA1587S, press the <u>□</u> button and move > to CXA1587S.

CXA1587S

JAA13070	A 11 A 1	Dete Assessed
Item No.	Adjustment item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHTNESS	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

- 8. Press OK button to get the next selection menu.
- 9. Press ▼ button and move > to the adjustment item and press OK button.
- 10. Press | and | buttons to change the data in order to comply with each standard.
- 11. Press OK button to write data.
- 12. Turn off the power to quit service mode when adjustments are completed.

CXA1587S

Item No.	Adjustment Item	Data Amount
01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	3
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DYNAMIC PICTURE	2
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	OFF
32	PRE/OVER SHOOT	7
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF
38	AGING 1	OFF
39	AGING 2	OFF
40	AKB	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF
		J 7 1

47	AFC 1	1
48	AFC 2	0
49	AFC	ON
50	REF. POSITION	0

CXA1526 (KP-S4113 only)

Item No.	Adjustment Item	Data Amount
01	DC SHIFT	32
02	UPPER Y BOW	4
03	LOWER Y BOW	5
04	H. AMP	48
05	H TILT	29
06	UPPER COR BOW	32
07	UPPER TILT	32
08	LOWER COR BOW	32
09	LOWER TILT	32

CXD2018Q

Item No.	Adjustment Item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP. V	13
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.

Typical On Screen Display based values when receiving PAL Phillips pattern.

TDA6612	Adjustment item	Data Amount
	Stereo-Separation	30

Should be adjusted twice 4:3 and 16:9 mode.

CX 7948A

Cross Bar Mesh (off) (off)

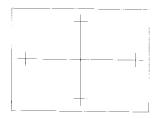
Fine Mesh

(off)

Select ▲ ▼ and press O.K.

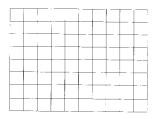
Cross Bar

(on)



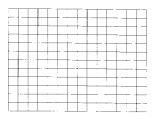
Mesh

(on)



Fine Mesh

(on)



Y FILTER ADJUSTMENT

- 1. Input a PAL RED pattern from the pattern generator.
- 2. Connect an oscilloscope to pin ① (R OUT) of CN0123 on the A board.
- 3. Enter into the service mode and select item 24 Y Filter Adjustment of CXA1587S.
- 4. Adjust data \triangle or ∇ to minimize the chroma element of CN0123 ① pin.
- 5. Press O.K. button to write the data.

SUB BRIGHTNESS ADJUSTMENT

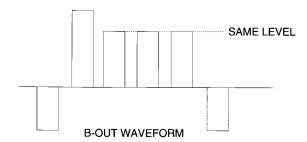
- 1. Input a Phillips pattern.
- Enter into the service mode and select item 09 SUB BRIGHTNESS of CXA1587S.
- Adjust the data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.
- 4. Press the O.K. button to write the data.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a Black background.
- Enter into the service mode and press 01 to have PIC max followed by 21.
- 3. Adjust the data so that 2.5 Vp-p can be obtained at pin ① of CN0123 (R out).

SUB COLOR ADJUSTMENT

- 1. Input a PAL color bar signal.
- Connect an oscilloscope to pin ① of CN0125 (B OUT) on the A board.
- Enter into the service mode and press 22 of CXA1587S, 8 SUB COLOR.
- Adjust the data so that the right sides of the waveform will be the same.
- 5. Press the O.K. button to write data.



STEREO-SEPARATION ADJUSTMENT

- 1. Input a 1kHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
- 2. Select Stereo-Separation of TDA6612.
- Adjust the data so that sound is not detected in the R-ch and the L-ch.
- 4. Press the O.K. button to write the data.

DRIVE AND CUT OFF

See direct test mode list attached and refer to sub brightness or such for adjustment method.

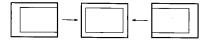
DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into service mode and select CXD2018Q.
- 2. Select and adjust each item in order to obtain the optimum image.

CXD2018Q

Item No.	Adjustment Item	Data Amount
01	V SIZE	No ADJ.
02	V SHIFT	No ADJ.
03	S CORRECTION	No ADJ.
04	V LINEARITY	No ADJ.
05	H SIZE	No ADJ.
06	PIN AMP	No ADJ.
07	TILT	No ADJ.
08	UPPER CORNER	No ADJ.
09	LOWER CORNER	No ADJ.
10	V BOW	No ADJ.
11	ANGLE	No ADJ.
12	HV COMP. V	13
13	HV COMP. H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAN	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	No ADJ.

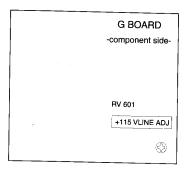
H SHIFT



3. Press OK button to write data.

If the menu display prevents accurate adjustment, press to clear, to resume, press to once again.

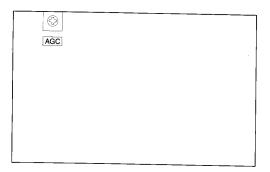
4-2. G BOARD ADJUSTMENT



+115 V LINE ADJUSTMENT (RV601)

- 1. Input a color-bar signal from the pattern generator.
- 2. Connect a digital multimeter to pin ⑤ of CN1654.
- 3. Adjust RV601 so that voltage is $+115 \text{ V} \pm 0.5 \text{ V}$.

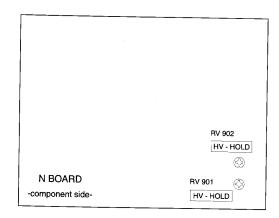
4-3. IF ADJUSTMENT



AGC ADJUSTMENT (IF BLOCK)

- 1. Receive an off-air signal.
- 2. Adjust the AGC VR so that there is no snow noise or cross-modulation visible on the screen.
- 3. Change the receiving channel and confirm status.

4-4. N BOARD ADJUSTMENTS



HV-HOLD DOWN ADJUSTMENT

- 1. Connect the HV meter.
- 2. Input a dot pattern signal from the pattern generator.
- 3. Adjust HV to 33.5 ± 0.1 KV by RV902.
- 4. Slowly turn the RV902 till HV-HOLD DOWN operates.
- 5. Fix the setting of RV902 with RTV.

HV-REGULATOR ADJUSTMENT

- 1. Connect the HV meter.
- 2. Input a dot pattern signal from the pattern generator.
- 3. Adjust HV to 31.5 ± 0.1 KV by RV901.
- 4. Fix the setting of RV901 with RTV.

4-5. TEST MODE 2:

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0, 10, or 20 twice ... or switch the TV into Stand-by Mode.

00	Switch Test Mode 2 off				
01	Picture maximum				
02	Picture minimum				
03	Volume 35%				
04	Volume 50%				
05	Volume 65%				
06	Volume 80%				
07	Aging Condition (Volume, Picture max., Brightness max., Aging 2 Mode of CXA1587S, and TDA2595 are locked to CXA1587S via PIN 34 of μ-Con.)				
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off.)				
09	Dummy				
10	Tenth entry is deleted.				
11	Balance				
12	Hue				
13-14	Dummy				
15	Read factory setting from NVM Read Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Color values from ROM to the actual used values (Last Power Memory)				
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.				
17	Preset Lavel for AV Sources				
18	Dummy				
19	Stereo Separation				
20	Tenth entry is deleted.				
21	Sub Contrast				
22	Sub Color				
23	Sub Brightness				
24-29	Dummy				
30	Tenth entry is deleted.				
31	Green Drive				
32	Blue Drive				
33	Green Cut Off (Auto Cut Off)				
	Blue Cut Off (Auto Cut Off)				

_						
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off.)					
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off.)					
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off.)					
38	Y-Filter adjustment (Trap is switched off and TDA9145 is switched in forced NTSC Mode.)					
39	Dummy					
40	Tenth entry is deleted.					
41	Default setting of CXA1587S. (Only in Prog 99 available)					
42	Default setting of CXA2018Q. (Only in Prog 99 available)					
43	Default setting of CXA1526. (Only in Prog 99 available)					
44	(All Port High) Not yet					
45	(All Port High) Not yet					
46-48	Dummy					
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On → the NVM will be preset by μ-Controller. (Not the channel data.)					

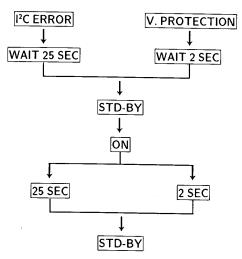
Note: For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4-6. ERROR MESSAGE

Self diagnos system can operates as follows.

 When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g error 2 and error 5 appears together, then LEDs shows error 2).

TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION	
1	I C BUS	SDA low	
2	X 24 C 16	EEPROM	
3	SDA 3202	Tuner PII	
4	TDA 9145	Colour decoder	
5	CXA 1587	RGB/Jungle	
6	TDA 6612	Sound processor	
7	CXD 2018	V deflection	
8	CXA 1545	AV switch	
11	SDA 5248	Text	
13		V protection	

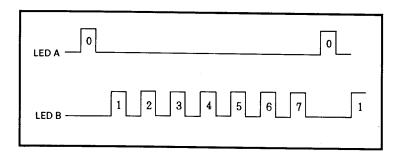
Stand by LED blinking

No IK return

4-7. ERROR II C BUS DIAGNOSIS SYSTEM

For all ICs in AP-1E chassis which are neccessary to get picture and sound there is a built in error I²C Bus diagnosis system.

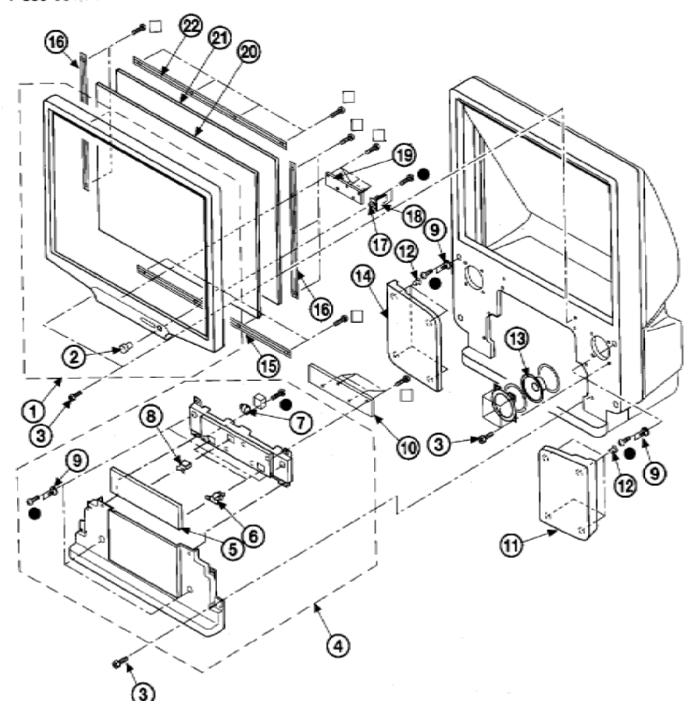
In case of no acknowledge bit, LED A and LED B starts blinking as shown.



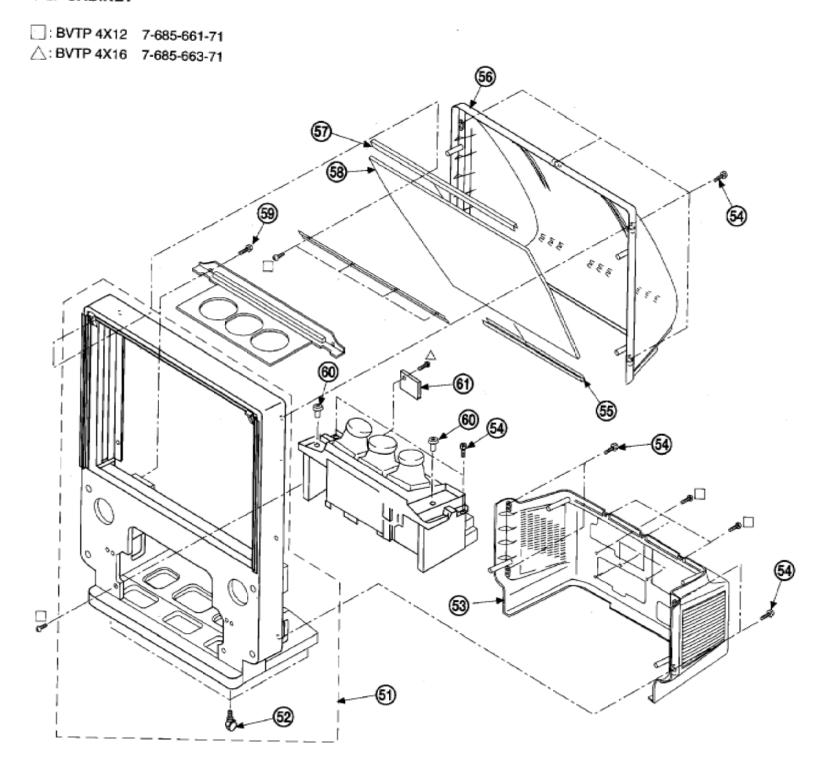
6-1. CONTROL PANEL

■: BVTP 3X12 7-685-648-79

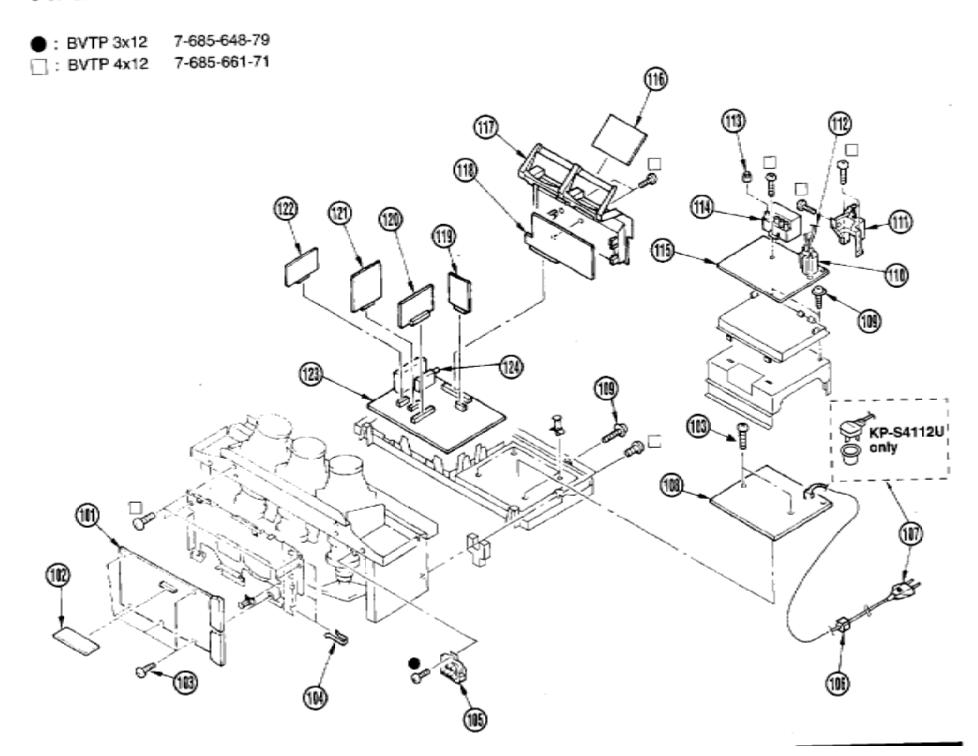
: BVTP 4X12 7-685-661-71



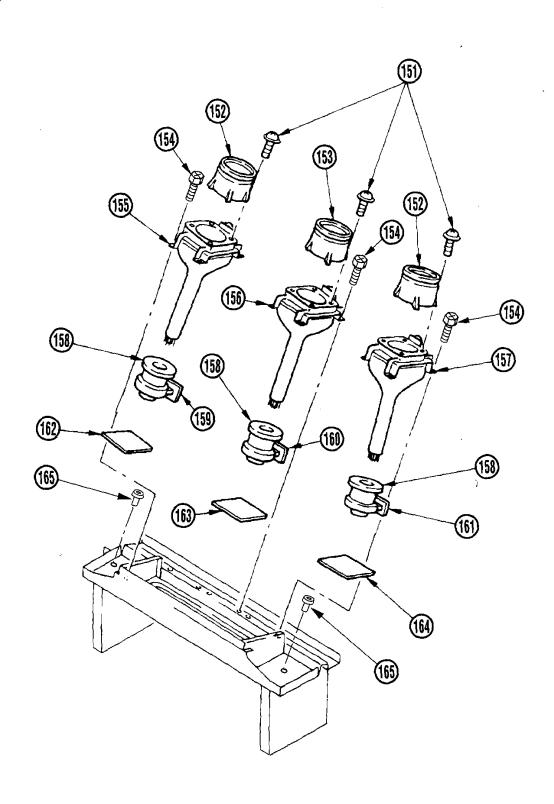
6-2. CABINET



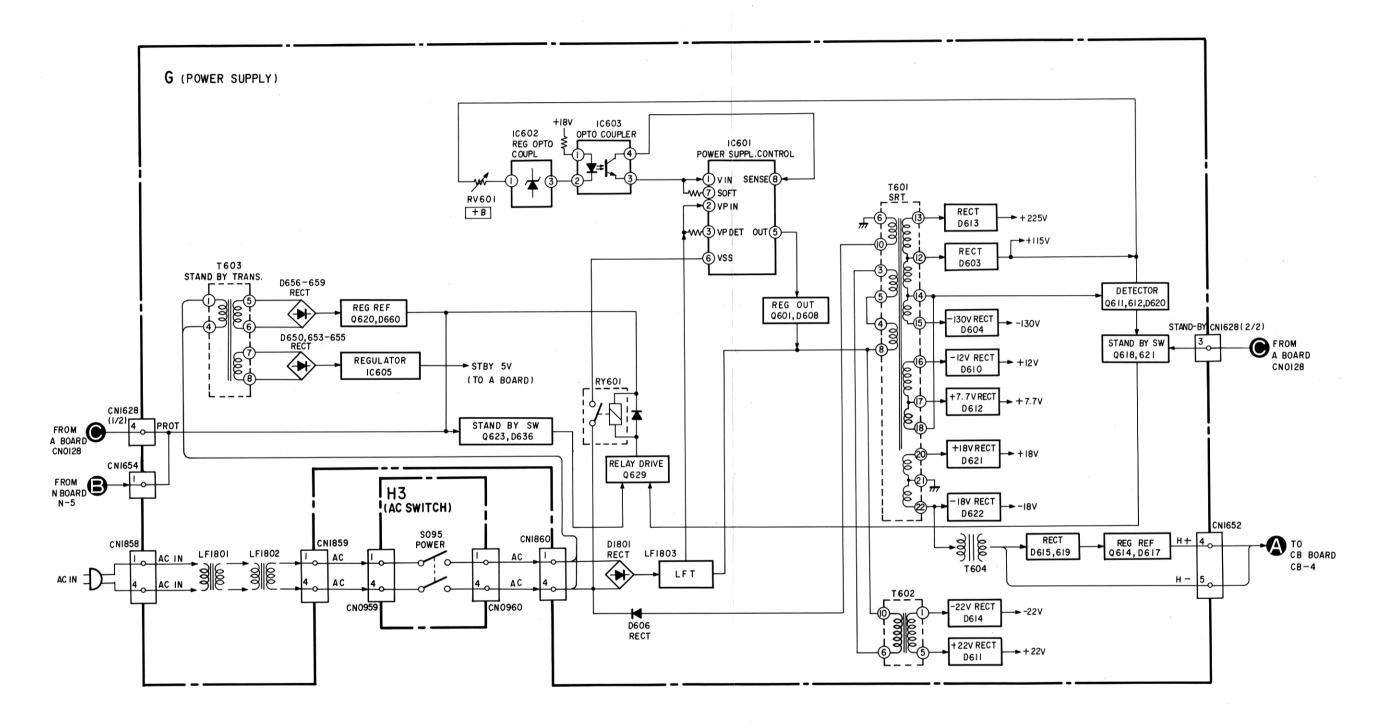
6-3. CHASSIS



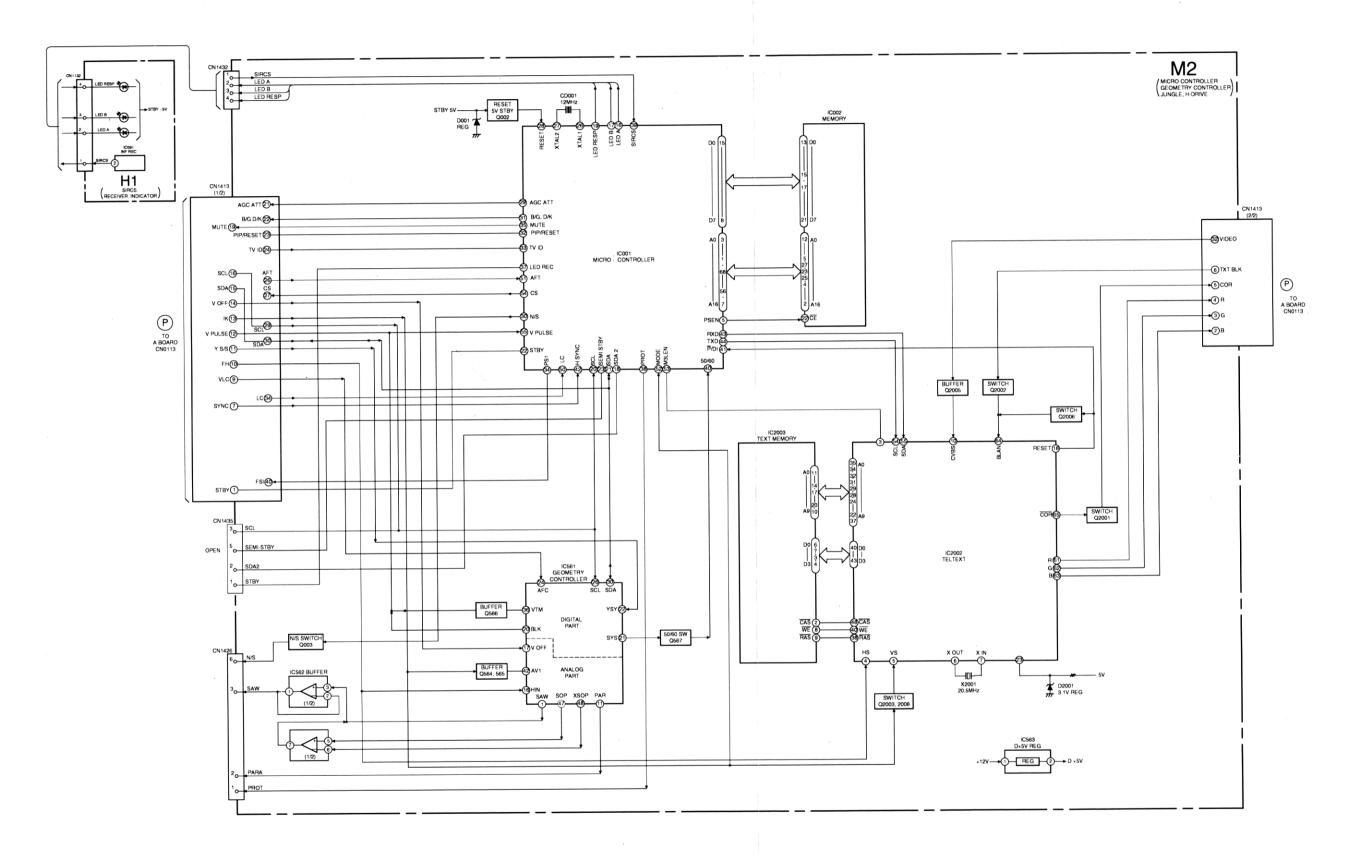
6-4. PICTURE TUBES

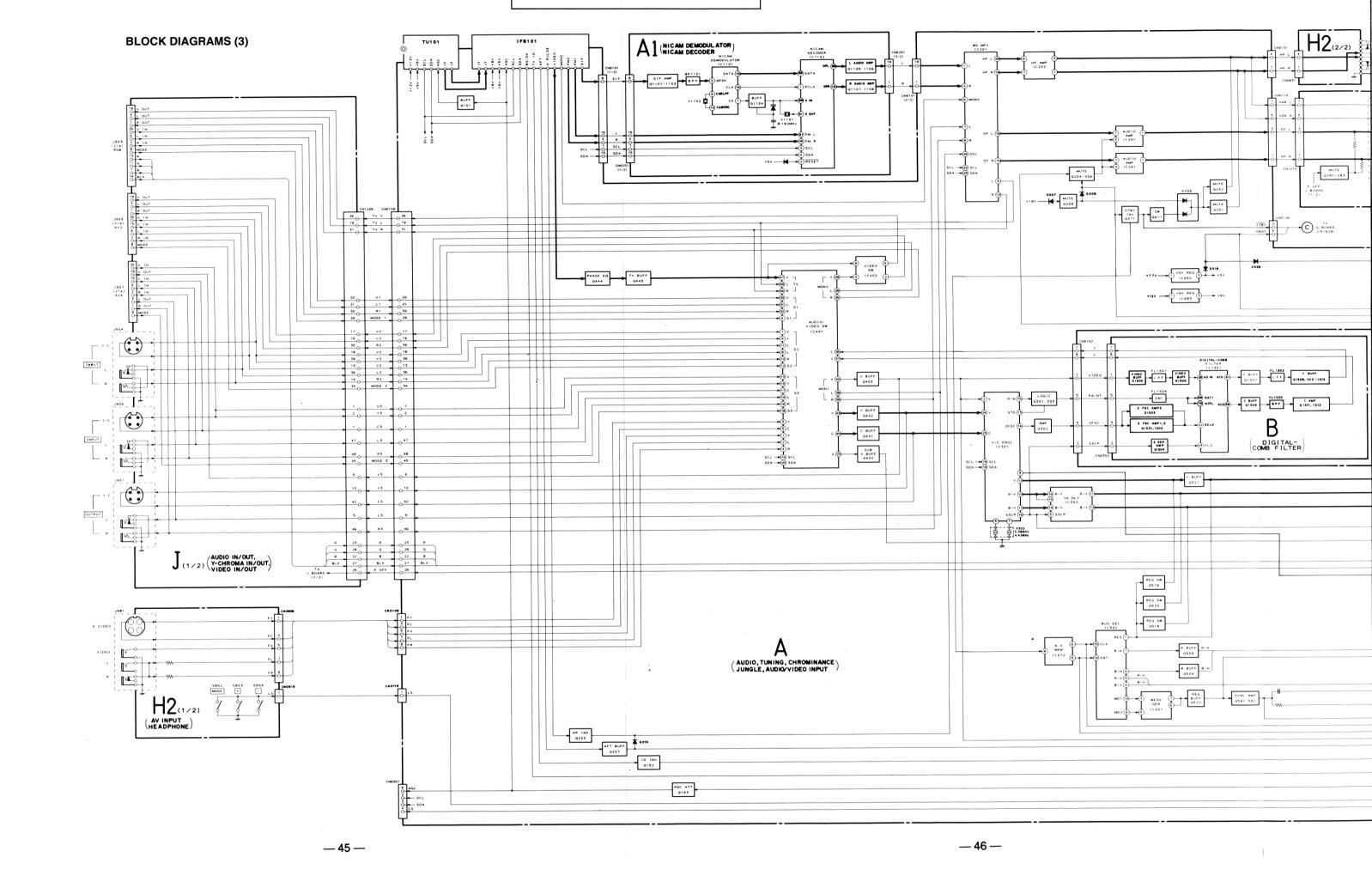


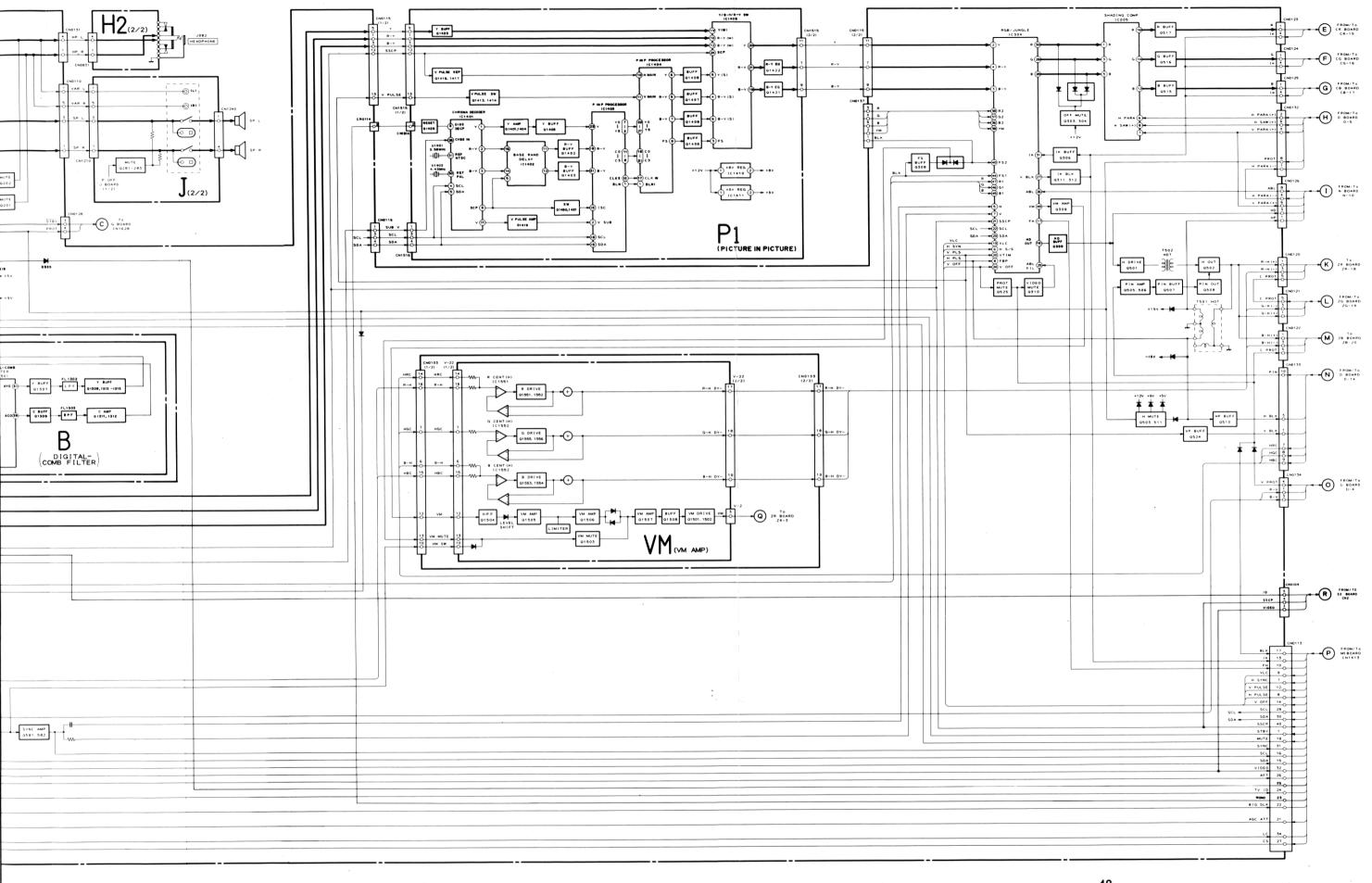
5-1. BLOCK DIAGRAMS (1)

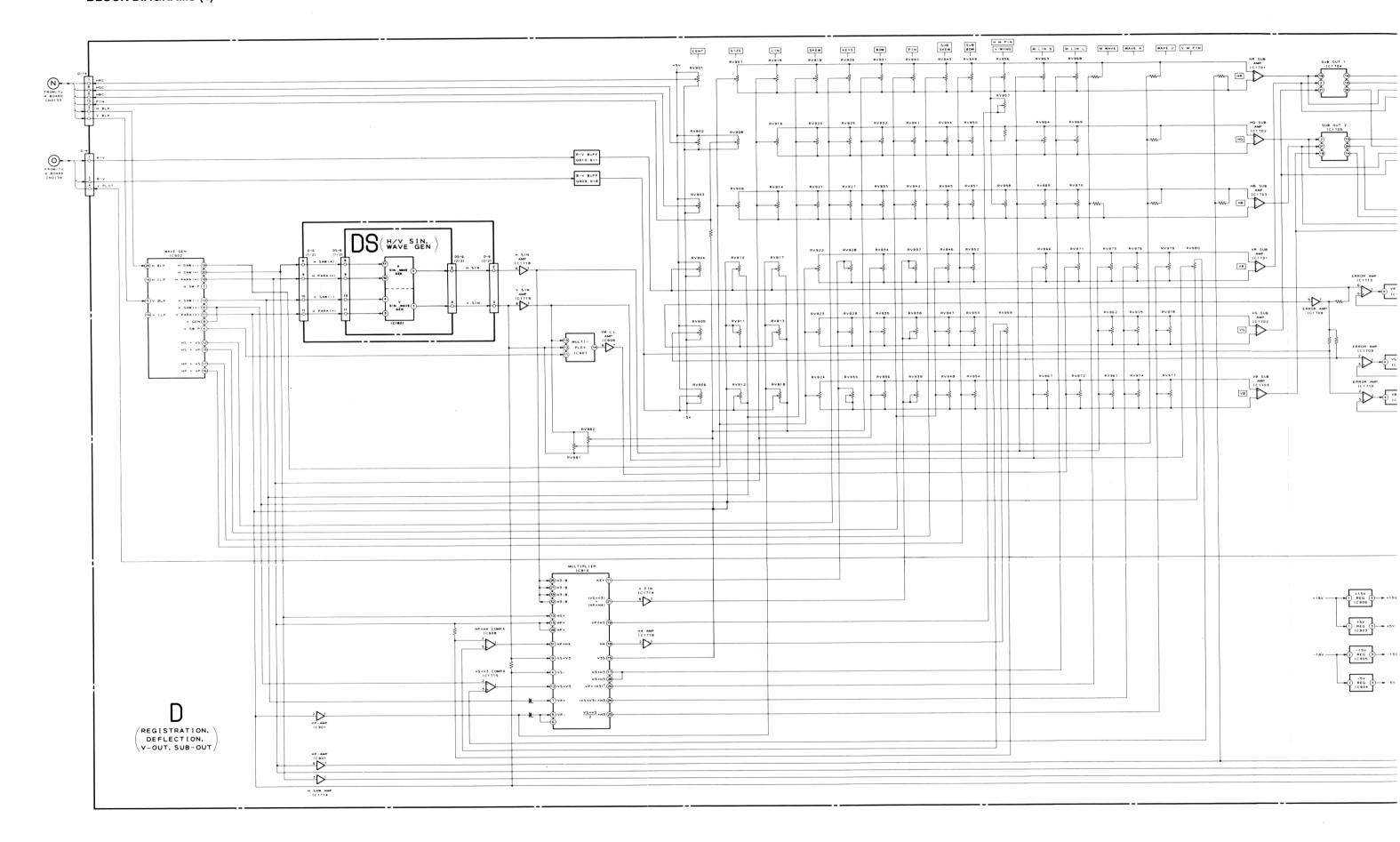


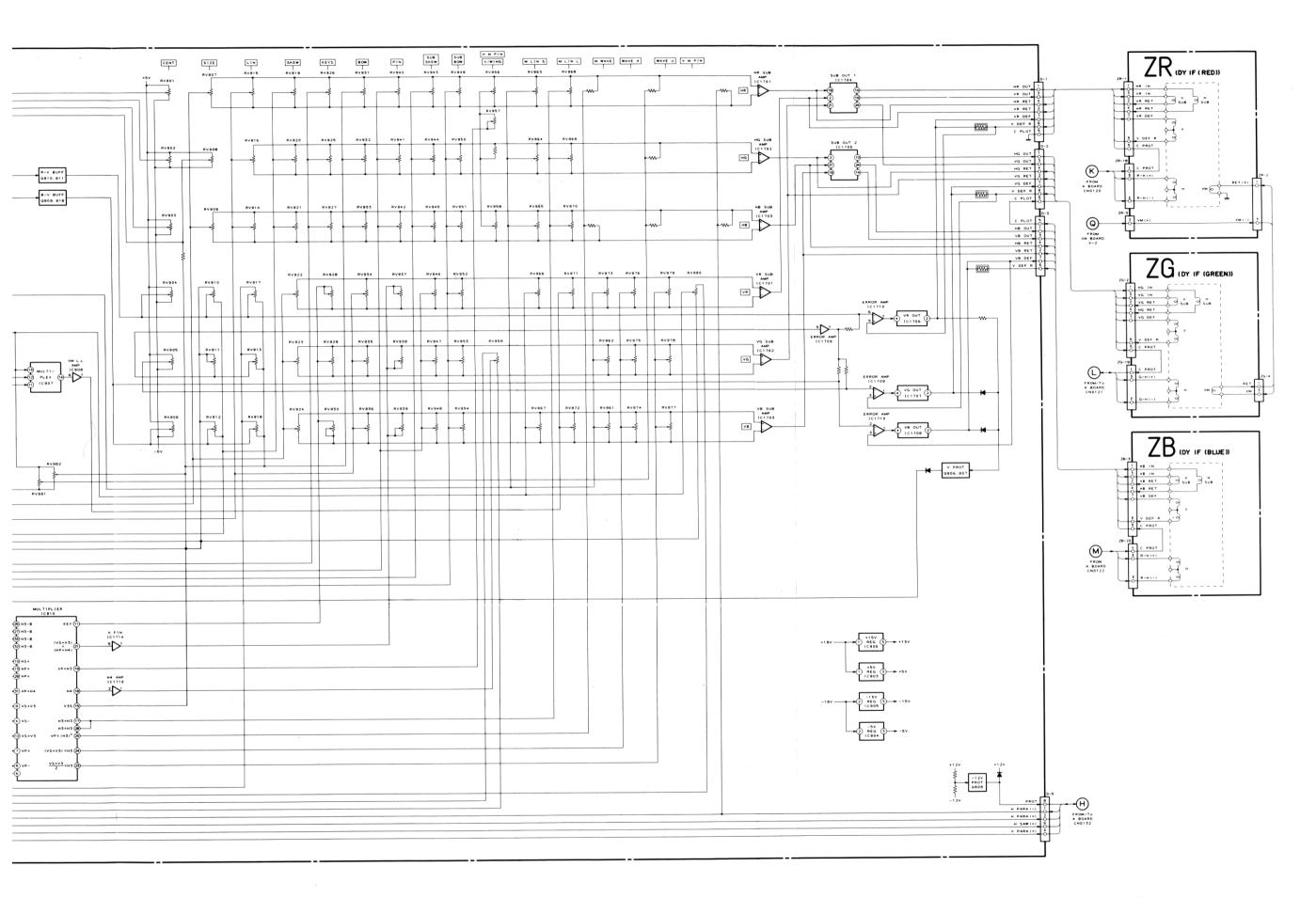
BLOCK DIAGRAMS (2)



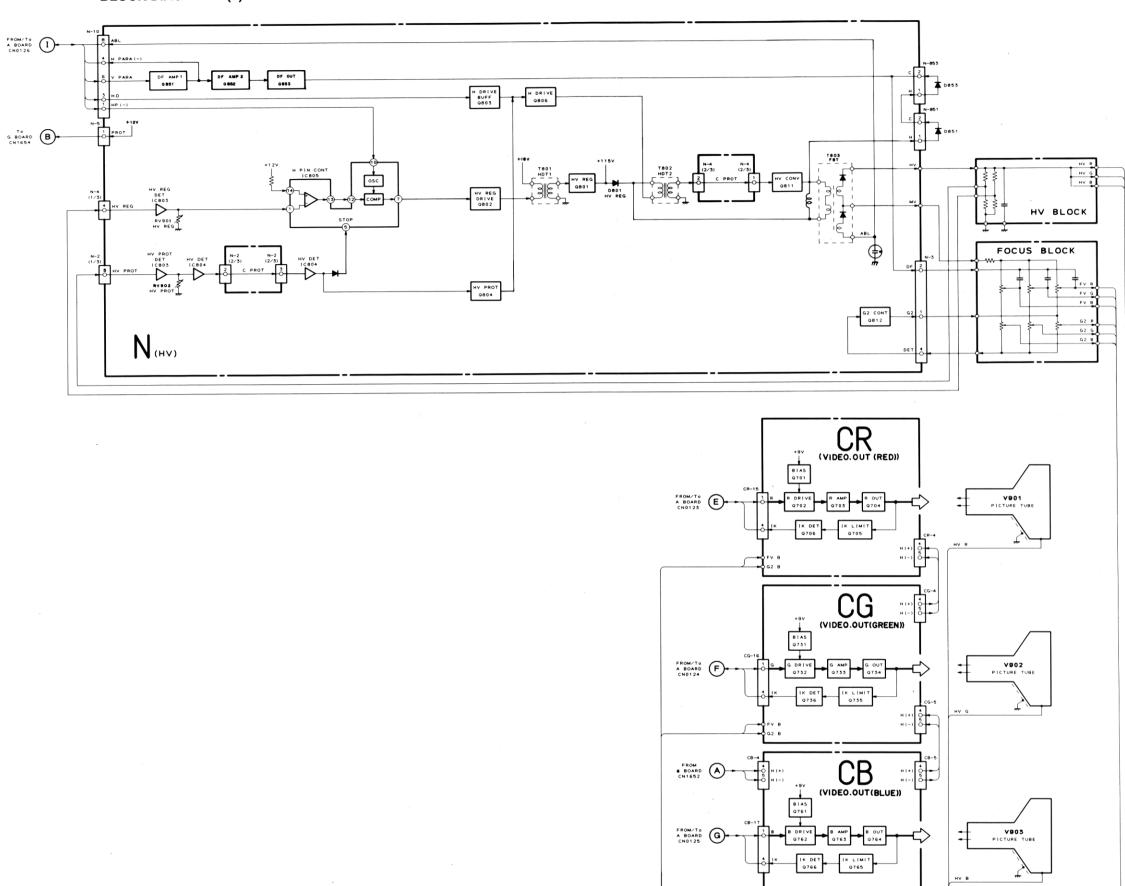




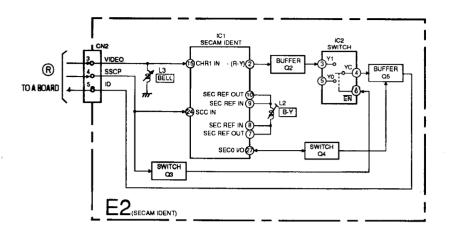




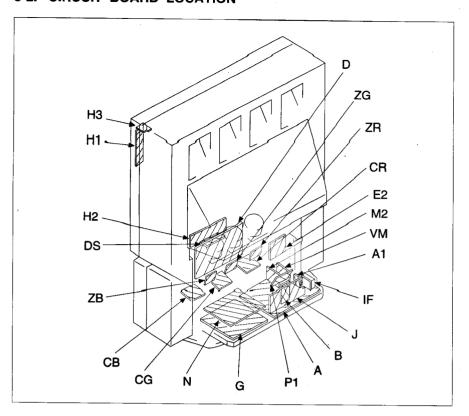
BLOCK DIAGRAMS (5)



BLOCK DIAGRAMS (6)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.

k = 1000, M = 1000K

Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 4 W

: nonflammable resistor. Δ : internal component.

: panel designation, or adjustment for repair.

All variable and adjustable resistors have characteristic curve

B, unless otherwise noted. 上 : earth - ground. m: earth - chassis. # : no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with part number specified.

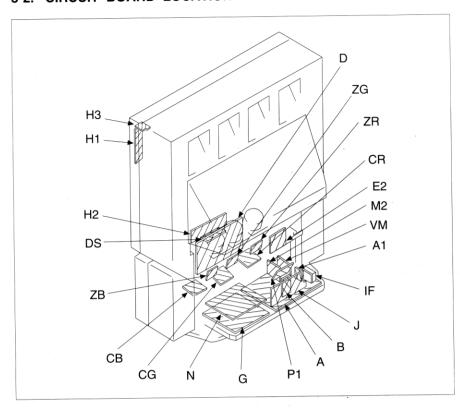
Reference info	rmation	
RESISTOR	: RN	METAL FI LM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
•	: X	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
. •	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.

: B+ bus.

: signal path. (RF)

5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

: nonflammable resistor.

: internal component.

: panel designation, or adjustment for repair. All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

: earth - ground. : earth - chassis.

: no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with part number specified.

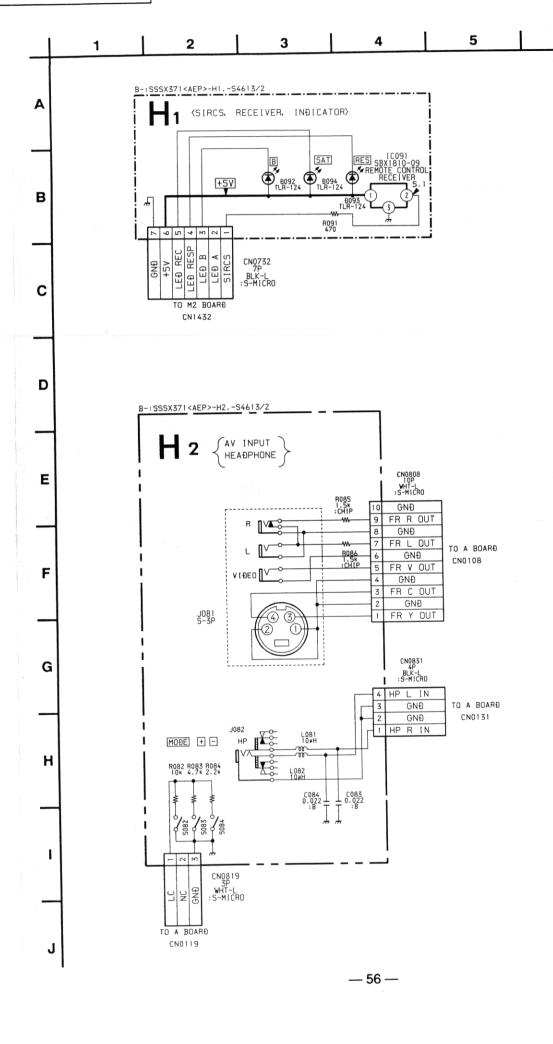
Reference information

METAL FILM RESISTOR : RN : RC SOLID : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : RB NONFLAMMABLE WIREWOUND : RW ADJUSTABLE RESISTOR : × MICRO INDUCTOR : LF-8L COIL **TANTALUM** CAPACITOR : TA : PS STYROL : PP POLYPROPYLENE : PT **MYLAR** : MPS METALIZED POLYESTER METALIZED POLYPROPYLENE : MPP **BIPOLAR** : ALB

Readings are taken with a colour-bar signal input. Readings are taken with 10M digital multimeter.

All voltages are in V.

: ALT HIGH TEMPERATURE HIGH RIPPLE : ALR Voltages are dc with respect to ground unless otherwise noted. Voltage variations may be noted due to normal production Circled numbers are waveform references. : signal path. (RF)



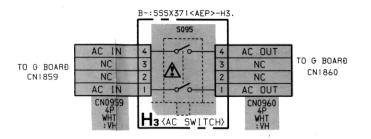
8

TO G BOARÐ CN1859

B-: SSSX371<AEP>-

H3 (AC SWITCH

7 | 8 | 9 | 10 | 11

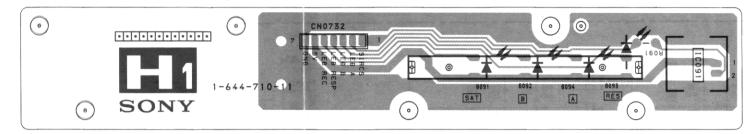




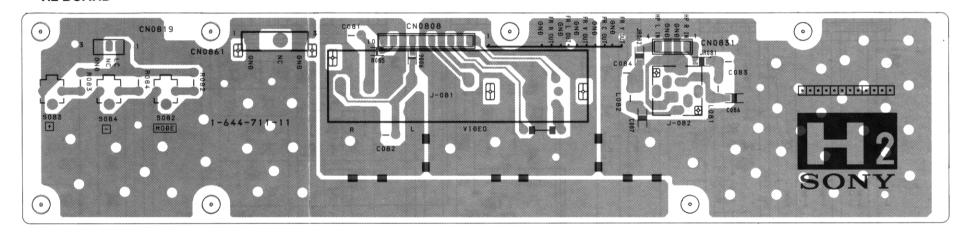




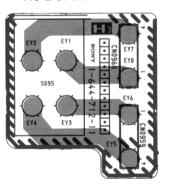
- H1 BOARD -

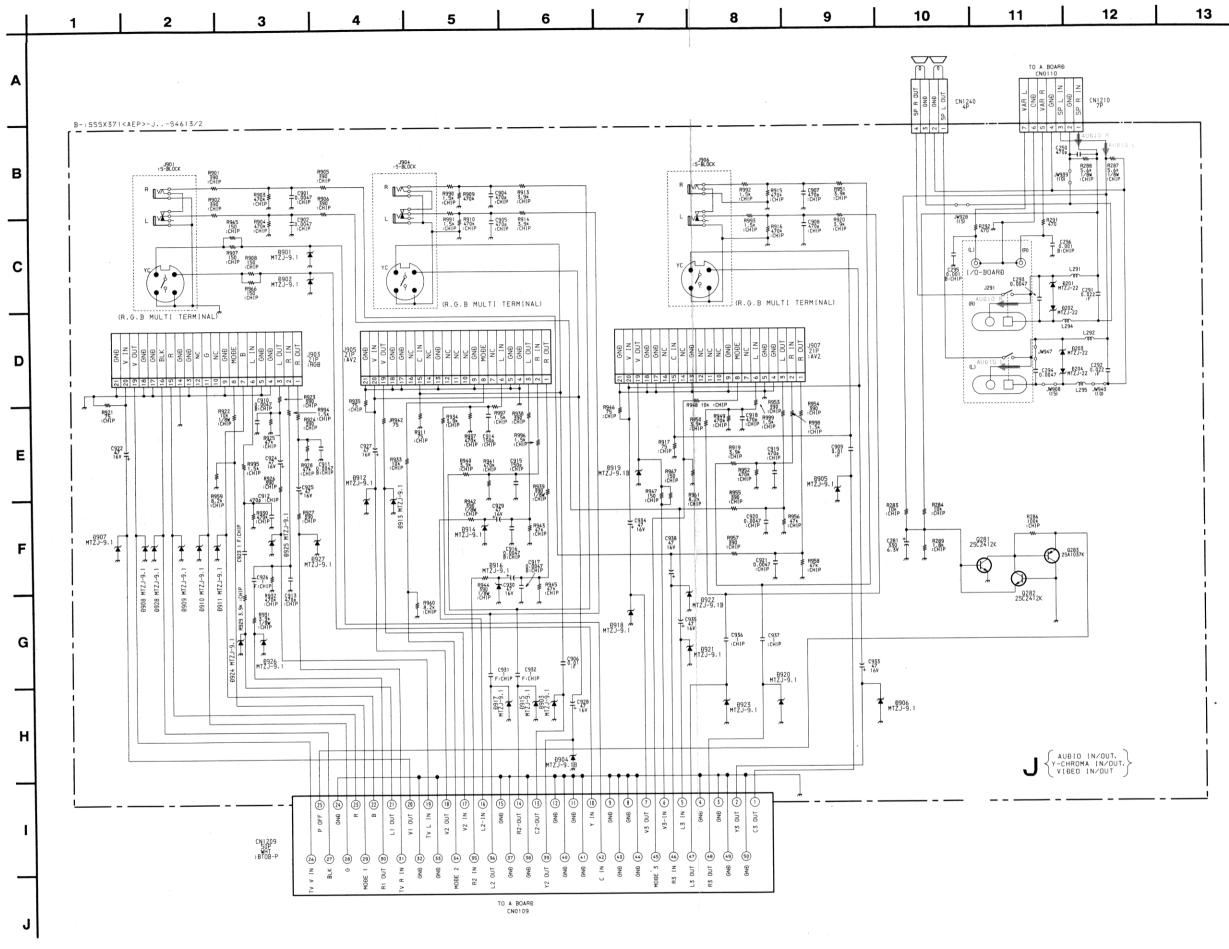


— H2 BOARD —

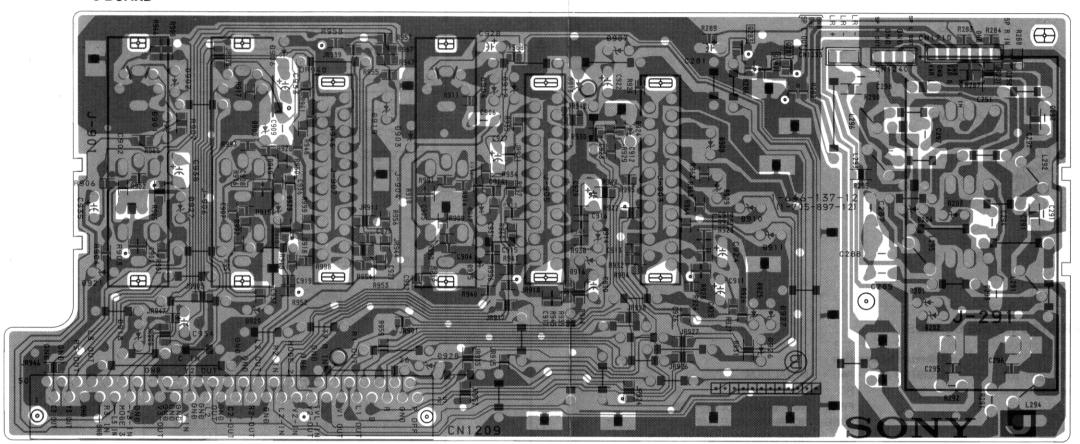


— H3 BOARD —

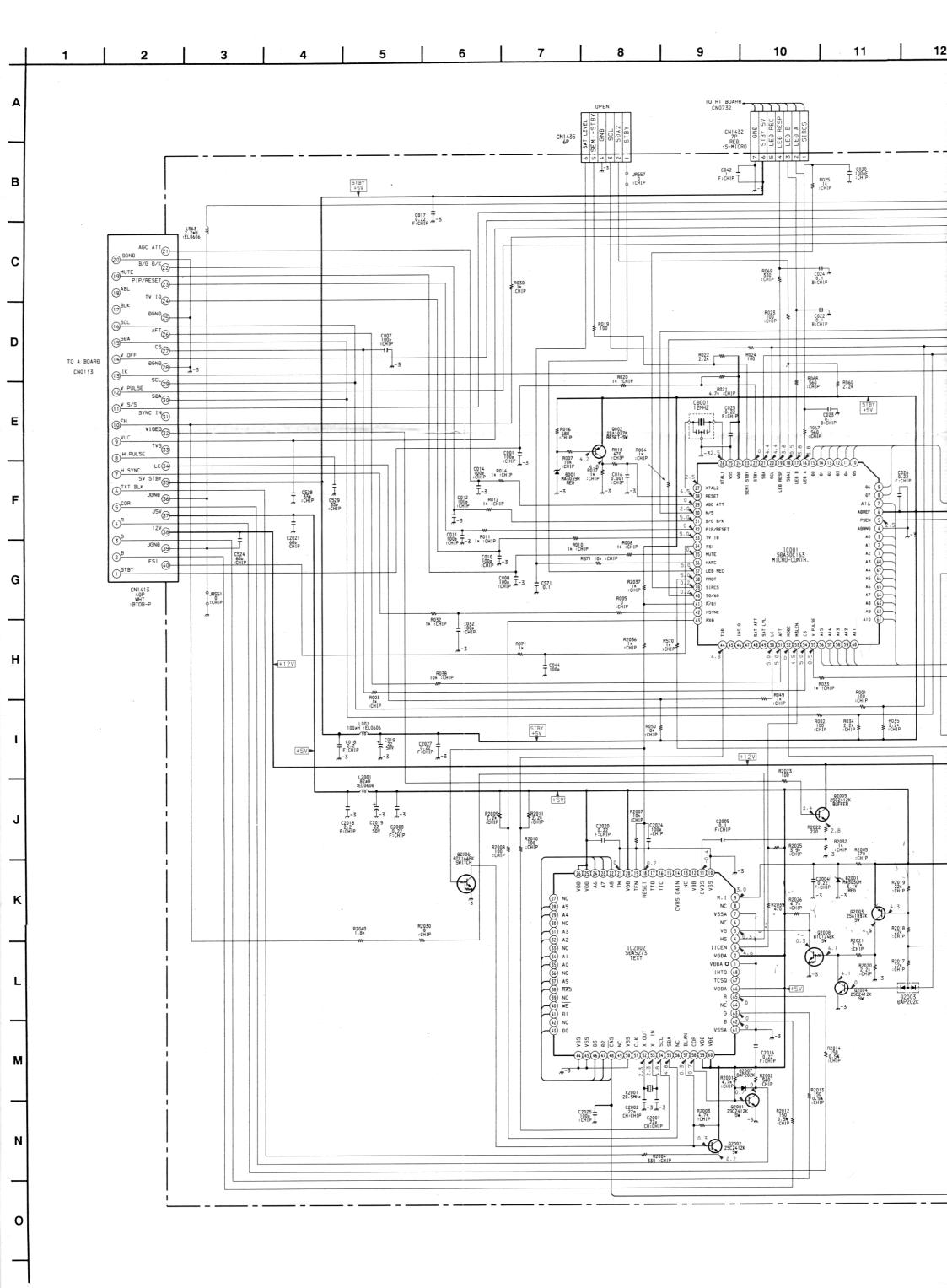


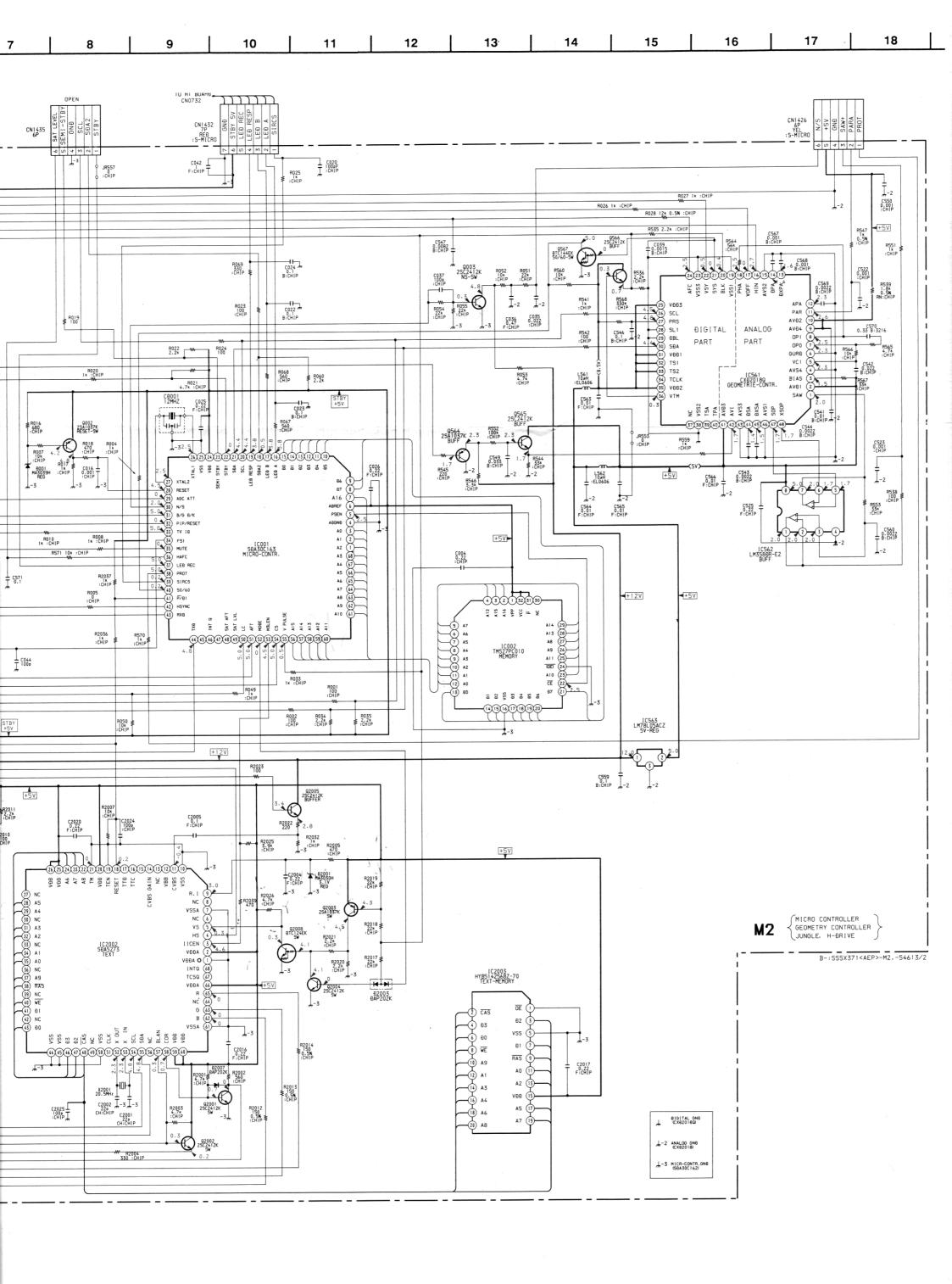


— J BOARD —

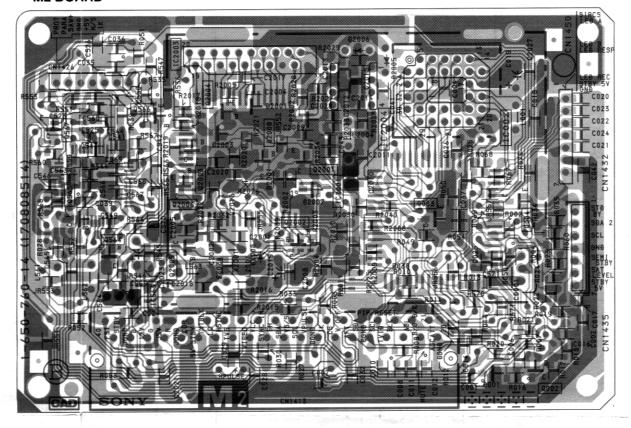


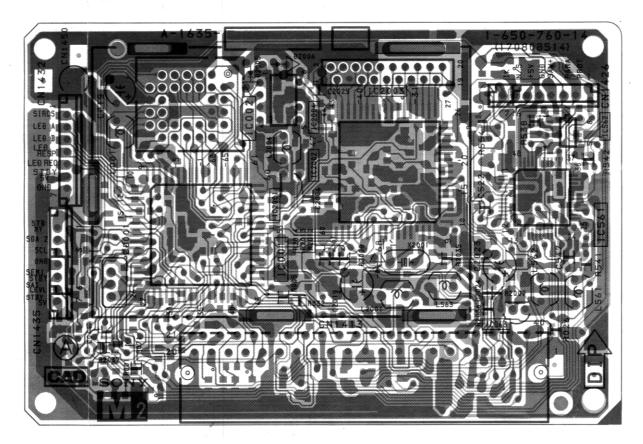
- Pattern from the side which enables seeing.
- : Pattern of the rear side.





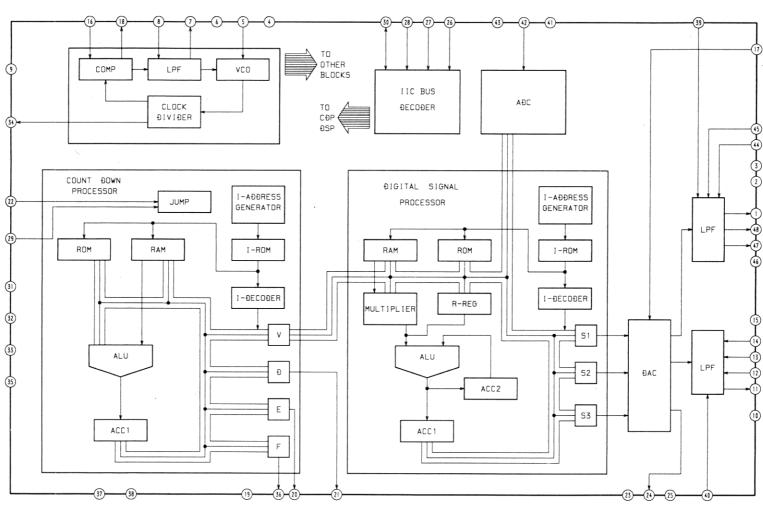
- M2 BOARD -

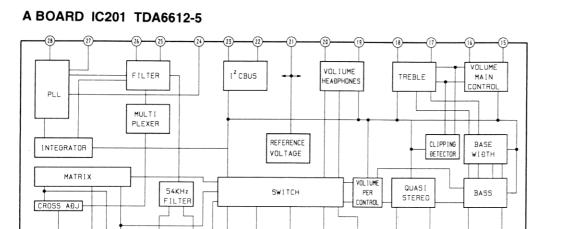




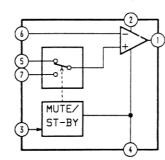
- Pattern from the side which enables seeing.
- Pattern of the rear side.

M2 BOARD IC561 CXD2018Q





A BOARD IC251, 261 TDA2052

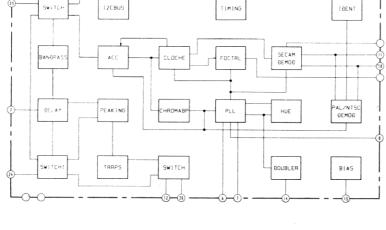


A BOARD IC301 TDA9145/N2B

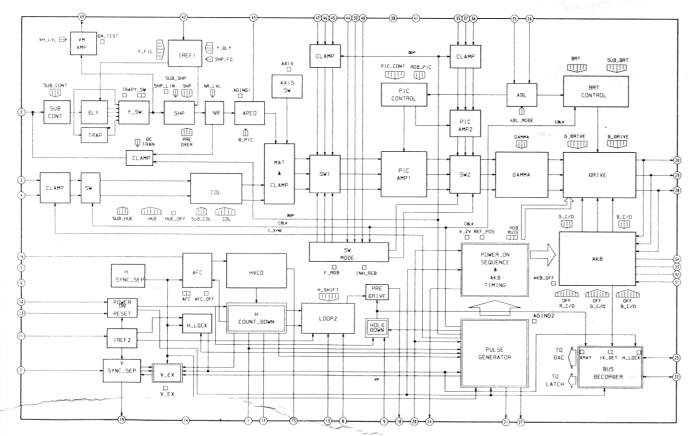
SWITCH



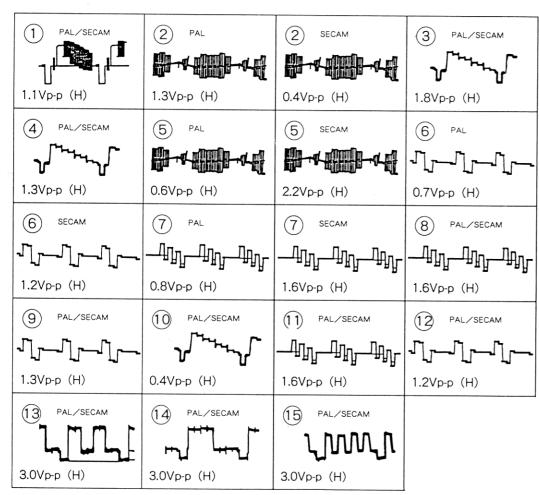




A BOARD IC304 CXA1587S



WAVEFORMS A BOARD

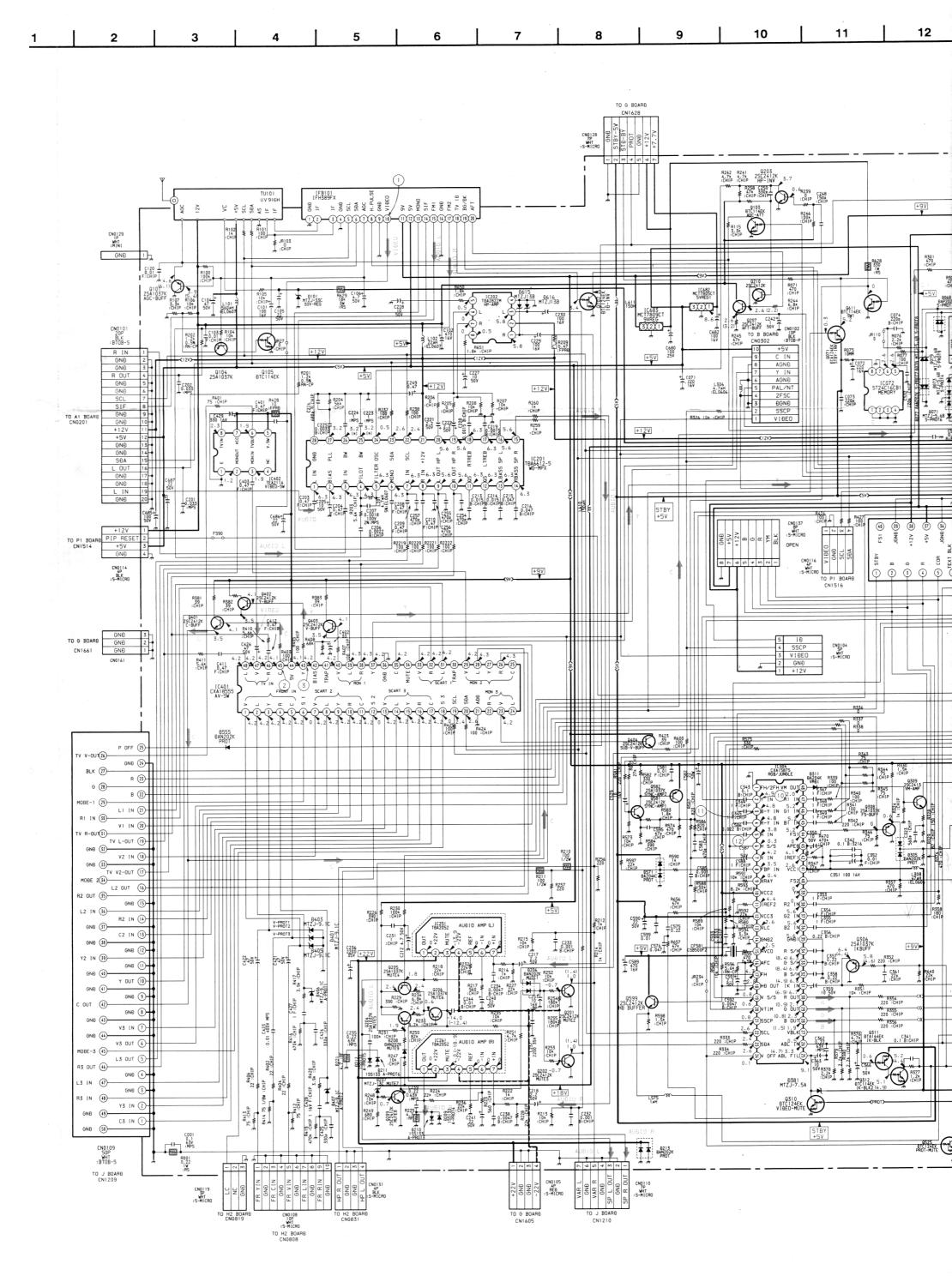


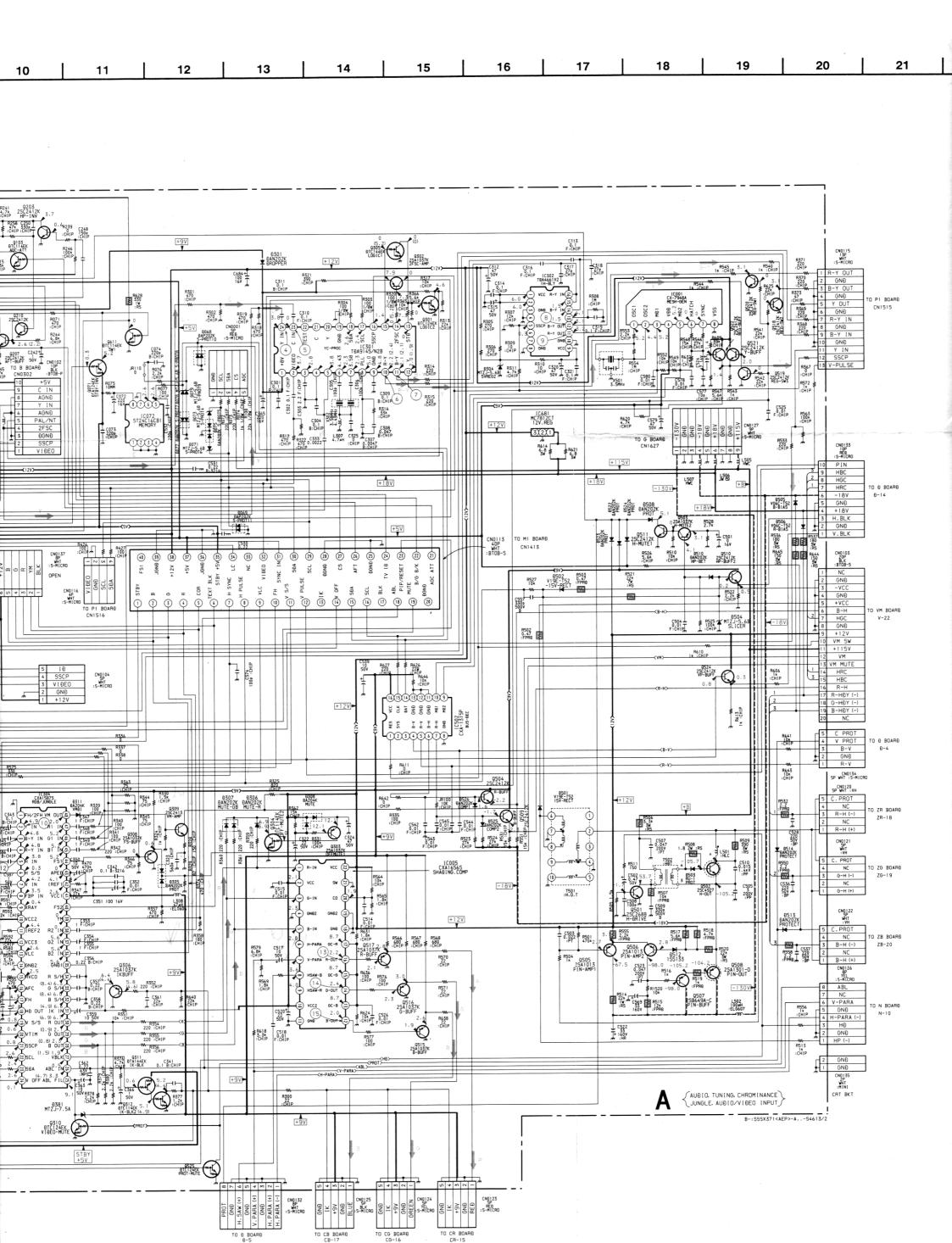
R503 0.47 :FPR0

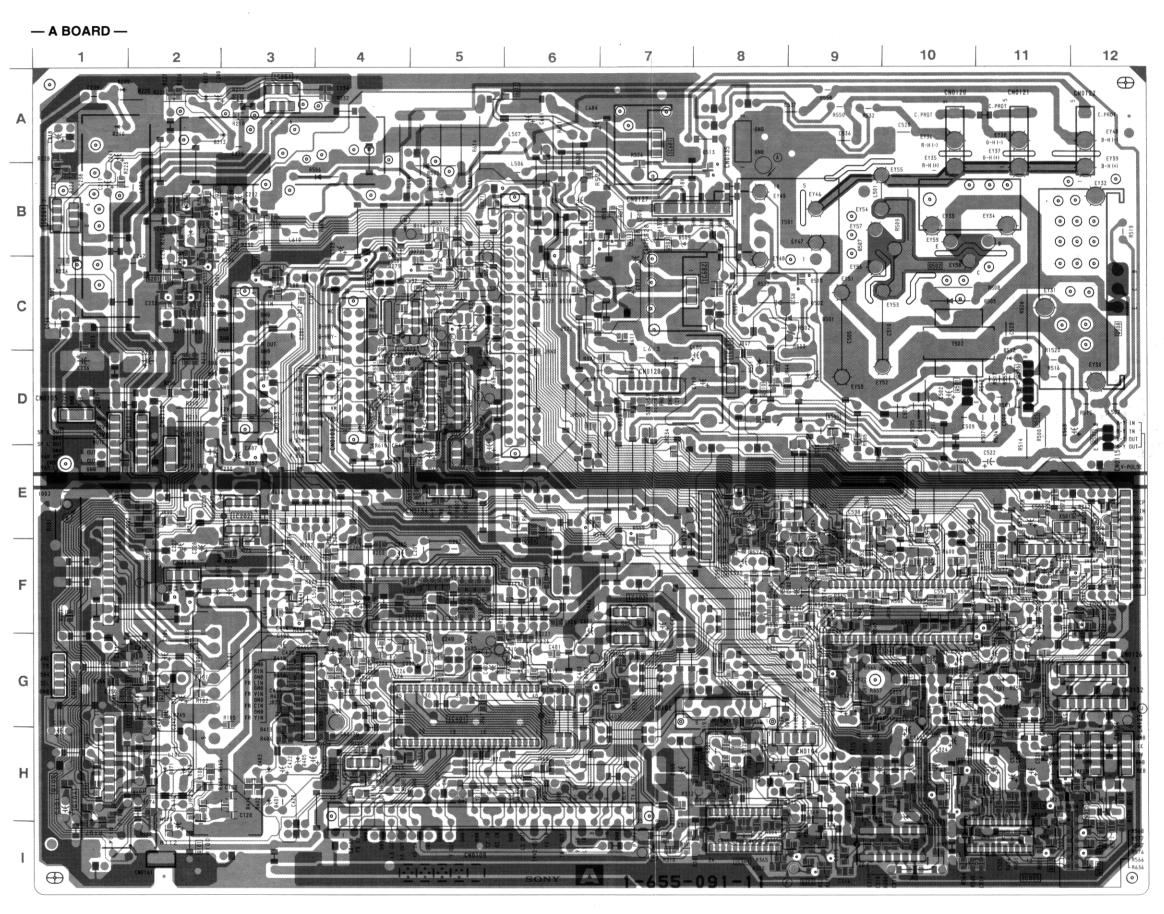
FR501 470k₂

17

1







— A BOARD —

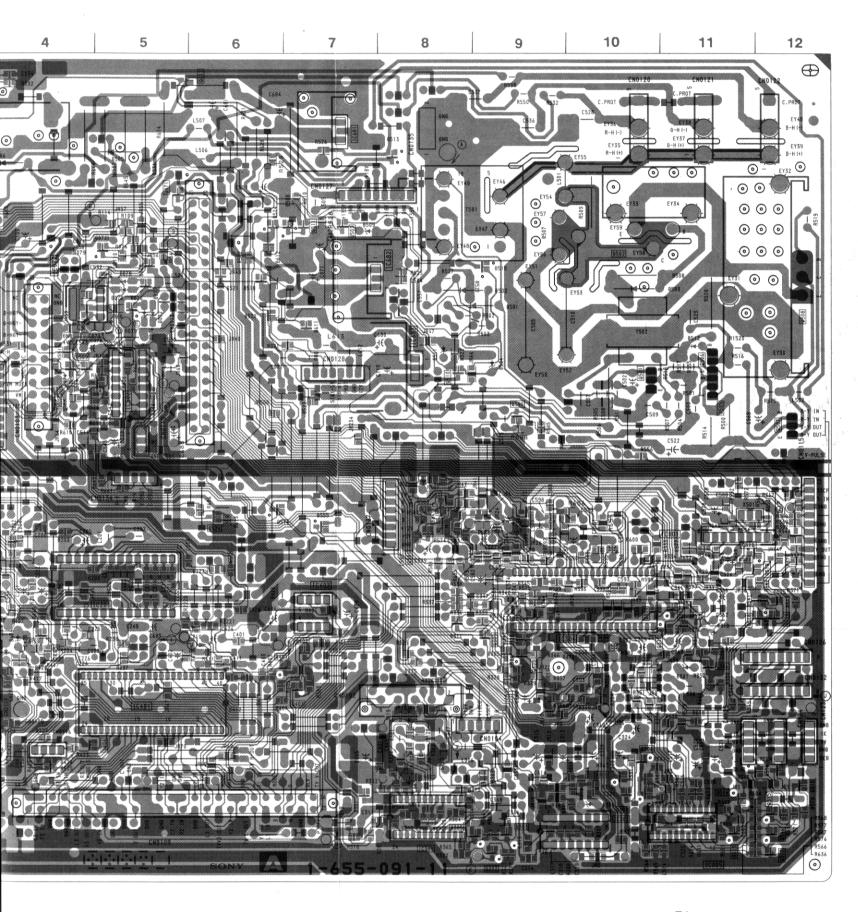
— A BU	AND —	
IC	;	
IC001	F-11	'
IC001	I-11	'
IC072	C-4	. '
IC201	F-5	1
IC201	E-3	
IC251	A-3	'
IC261	B-1	'
IC301	I-8	
IC301	I-10	
IC302	G-10	
IC401	G-5	
IC401	F-7	
IC502	D-5	
IC681	A-7	
IC682	C-8	
IC683	D-8	
10003	D-0	
TRANS	ISTOR	
Q071	B-5	
Q101	1-2	
Q102	H-1	
Q103	H-2	
Q104	H-1	
Q105	H-1	١
Q201	C-2	l
Q202	C-2	
Q203	G-2	
Q204	B-3	
Q205	B-2	L
Q206	B-2	
Q207	G-2	\vdash
Q209	C-2	
Q210	G-2	
Q301	1-9	
Q302	1-9	
Q303	H-10	1
Q304	H-10	
Q305	1-9	
Q306	G-11	
Q308	G-9	1

• Eattern from the side which enables

Q309 Q310

G-9 G-11

Pattern of the rear side.



— A BOARD —

— A BUARU —						
IC		Q311	F-10	D208	B-2	
		Q312	F-11	D209	A-1	
IC001	F-11	Q401	G-7	D210	A-1	
IC005	I-11	Q402	G-7	D211	A- 2	
IC072	C-4	Q403	G-7	D212	A- 2	
IC201	F-5	Q404	H-4	D213	C-1	
IC202	E-3	Q501	D-10	D301	H-7	
IC251	A-3	Q502	C-10	D304	H-10	
IC261	B-1	Q503	B-7	D305	G-9	
IC301	1-8	Q504	D-4	D306	H-10	
IC302	I-10	Q505	D-11	D307	H-10	
IC304	G-10	Q506	D-11	D308	H-10	
IC401	G-5	Q507	D-12	D311	G-8	
IC402	F-7	Q508	C-12	D381	G-11	
IC502	D-5	Q509	D-4	D401	H-3	
IC681	A-7	Q510	D-8	D403	H-3	
IC682	C-8	Q511	B-7	D405	H-3	
IC683	D-8	Q515	I-12	D406	G-4	
TRANS	ISTOR	Q516	I-12	D407	G-4	
ITANS		Q517	I-12	D501	C-9	
Q071	B-5	Q518	F-12	D502	C-9	
Q101	1-2	Q519	F-12	D503	C-10	
Q102	H-1	Q520	F-12	D504	D-9	
Q103	H-2	Q521	F-12	D505	B-5	
Q104	H-1	Q522	F-12	D506	B-3	
Q105	H-1	Q524	F-6	D508	B-7	
Q201	C-2	Q525	F-11	D510	C-9	
Q202	C-2	Q581	F-8	D512	D-11	
Q203	G-2	Q582	E-8	D513	A-8	
Q204	B-3	Q599	D-9	D514	E-6	
Q205	B-2	Q611	A-6	D522	C-6	
Q206	B-2	DIODE		D523	D-7	
Q207	G-2	DIODE		D524	B-6	
Q209	C-2	D068	C-5	D525	D-4	
Q210	G-2	D069	G-2	D526	D-4	
Q301	1-9	D071	H-2	D555	E-7	
Q302	1-9	D073	H-2	D571	E-9	
Q303	H-10	D075	H-2	D615	E-2	
Q304	H-10	D077	C-5	D616	E-3	
Q305	1-9	D078	C-5			
Q306	G-11	D079	C-5			
Q308	G-9	D101	F-2			
Q309	G-9	D206	C-2			
Q310	G-11	D207	B-2			
L						

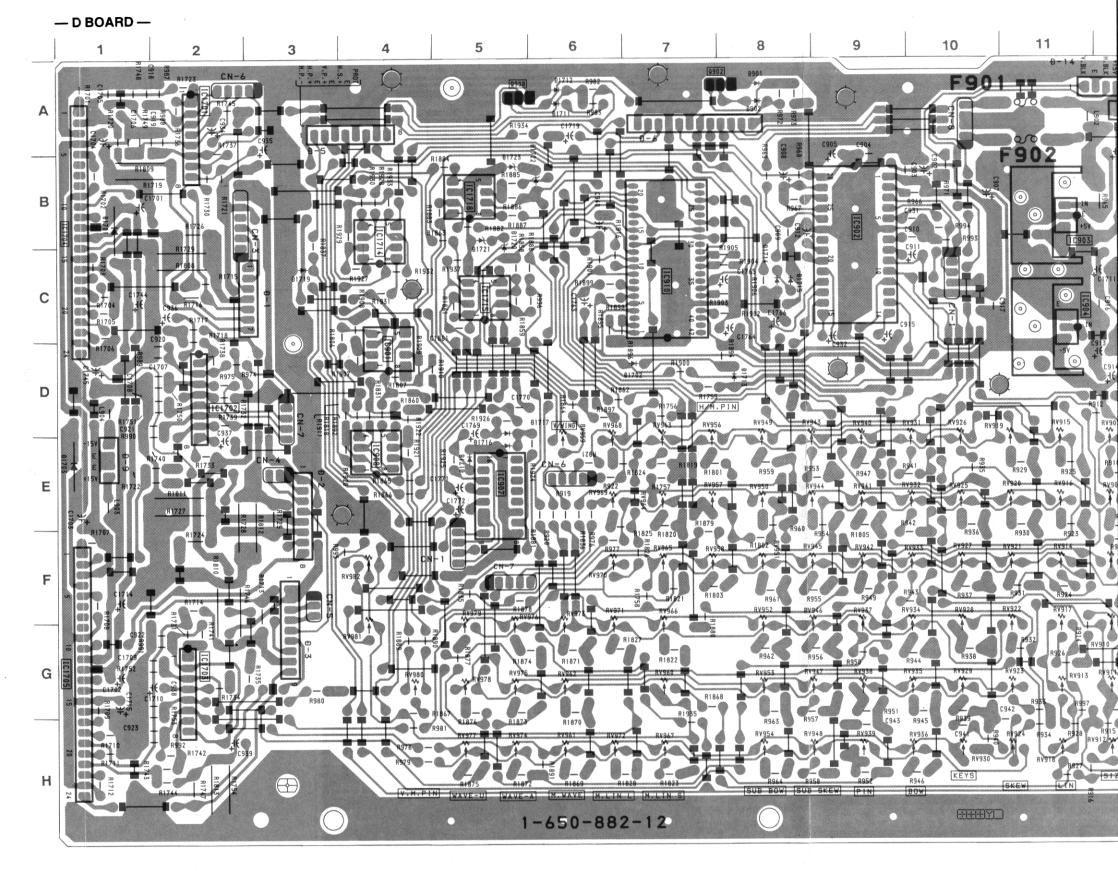
[•] Eattern from the side which enables seeing.

 [:] Pattern of the rear side.

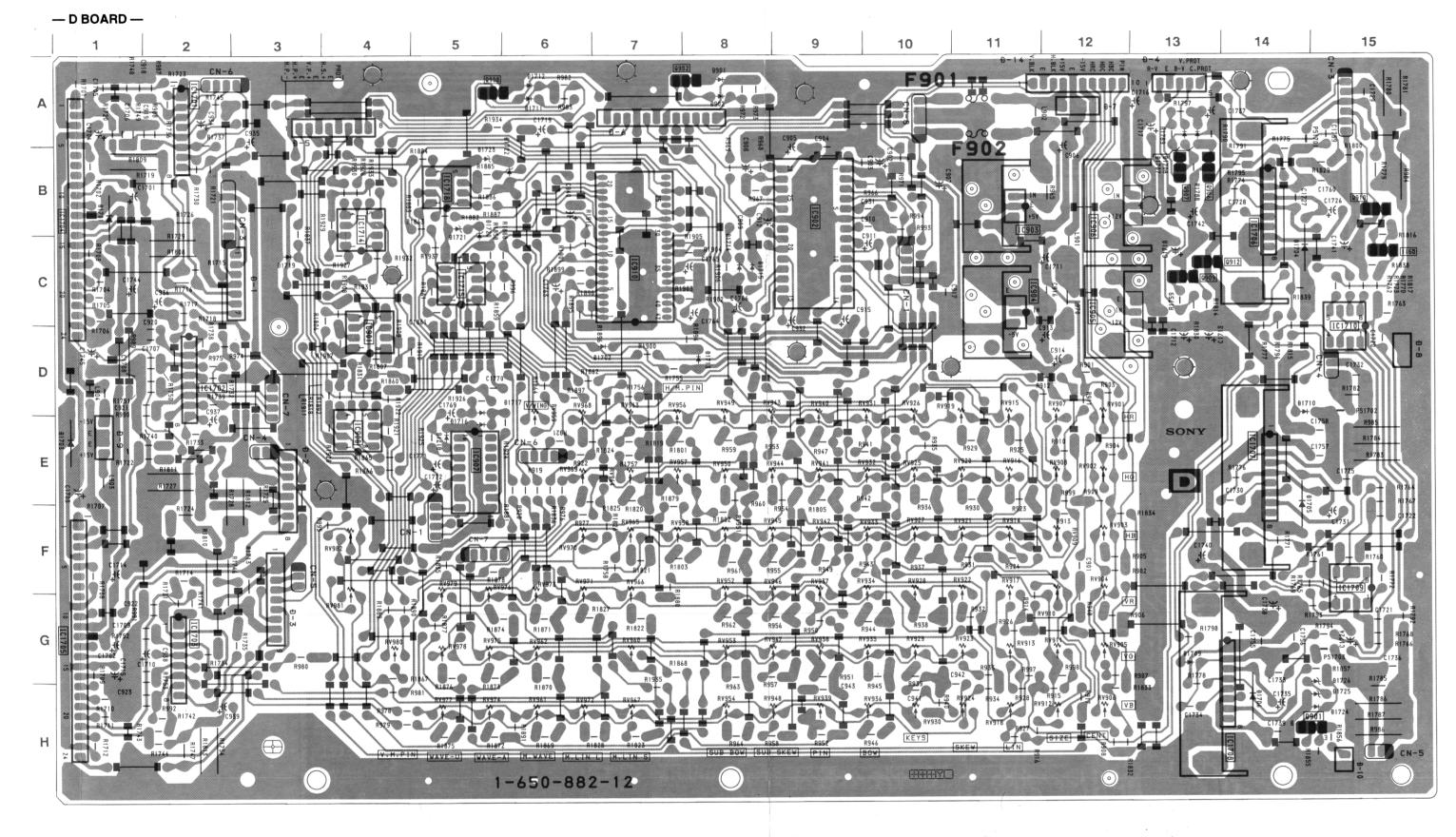


— D BOARD —

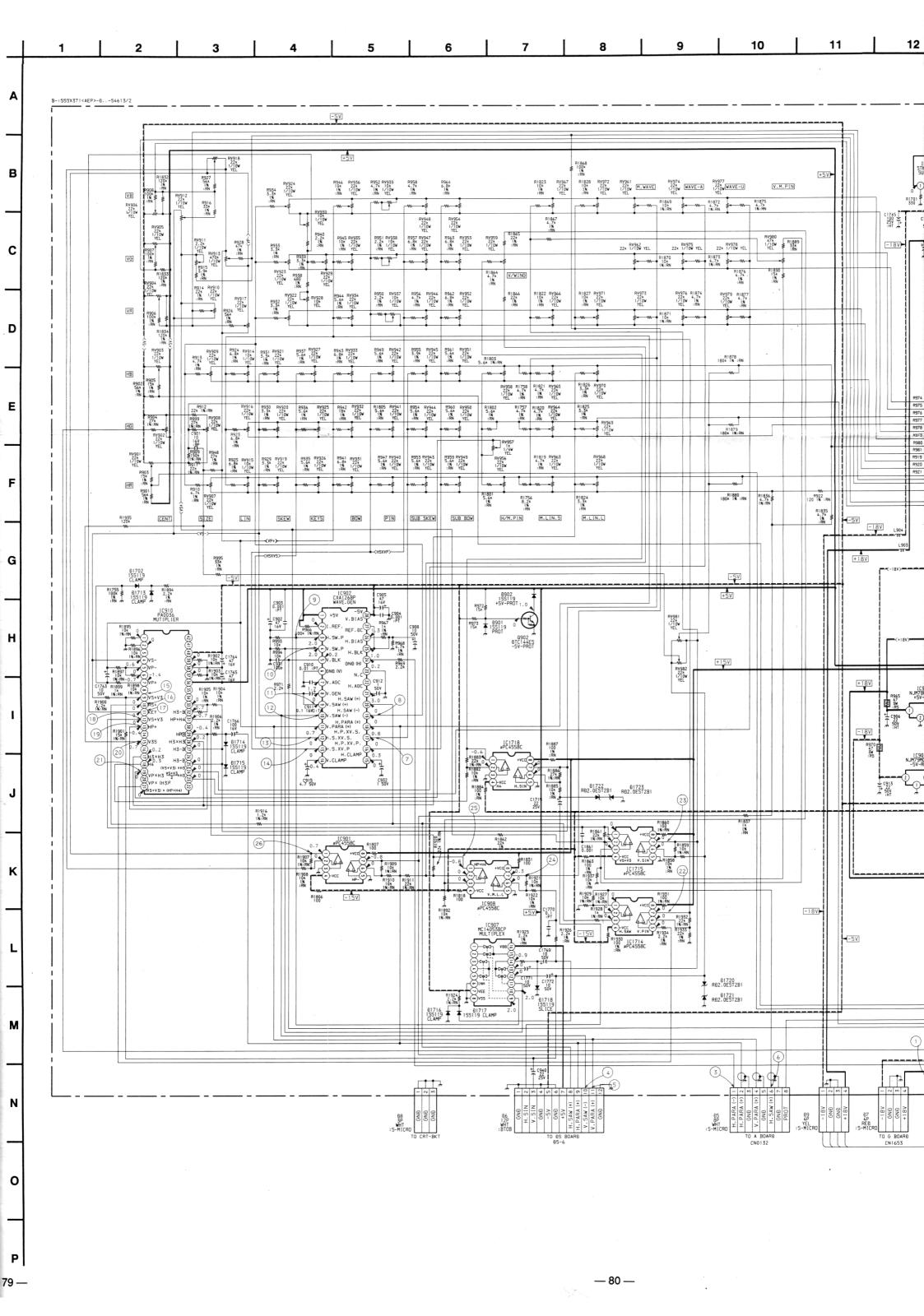
IC		D1712	A-6	RV934	F-10	
IC9	<u></u>	D-4	D1713 D1714	D-8 C-8	RV935 RV936	G-10 H-10
IC9		B-9	D1714	C-8	RV936	F-9
IC9		B-11	D1715 D1716	E-5	RV937	G-9
IC9		C-11	D1716	D-5	RV939	H-9
IC9		C-12	D1717	E-5	RV940	D-9
I IC9		B-12	D1718	B-5	RV940	E-9
IC9		E-5	D1720	B-5	RV942	F-9
I iC9		E-4	D1721	B-6	RV943	D-9
IC9		C-7	D1723	B-5	RV944	E-9
IC1	701	A-2			RV945	F-9
IC1	702	D-2	VARIA		RV946	F-9
IC1	703	G-2	RESIS	STOR.	RV947	G-9
IC1	704	B-2	RV901	D-12	RV948	H-9
IC1	705	G-1	RV902	E-12	RV949	D-8
IC1	706	C-14	RV903	F-12	RV950	E-8
	707	E-14	RV904	F-12	RV951	F-8
	708	H-14	RV905	G-12	RV952	F-8
	709	F-15	RV906	H-12	RV953	G-8
	710	D-15	RV907	D-12	RV954	H-8
	714	B-4	RV908	E-12	RV956	D-7
	715	C-5	RV909	F-12	RV957	E-7
IC1	718	B-5	RV910	G-12	RV958	F-7
т	SANG	ISTOR	RV911	G-12	RV959	D-6
<u> ''</u>	1/11/01		RV912	H-12	RV961	H-6
Q9	02	A-7	RV913	G-11	RV962	G-6
Q9	06	B-13	RV914	F-11	RV963	D-7
Q9	07	B-13	RV915	D-11	RV964	E-7
Q9	80	A- 5	RV916	E-11	RV965	F-7
Q9	09	C-13	RV917	F-12	RV966	F-7
Q9	10	B-15	RV918	H-11	RV967	H-7
Q9	11	C-15	RV919	D-11	RV968	D-6
Q9	12	C-14	RV920	E-11	RV969	E-6
\vdash	Dia	DE	RV921	F-11	RV970	F-6 F-6
	DIO	שש	RV922	F-11	RV971 RV972	H-6
Do	901	A-8	RV923	G-11	RV972	п-6 F-6
	902	A-8	RV924	H-11	RV973	H-5
	702	D-7	RV925	E-10	RV974	G-5
	1704	C-14	RV926	D-10 F-10	RV976	F-5
	1705	F-14	RV927	F-10 F-10	RV977	H-5
	1706	H-14	RV928		RV978	G-5
	1707	A-13	RV929		RV979	F-5
-	1708	A-13	RV930	D-10	RV980	G-4
	1709	G-13	RV931		RV981	G-4
D.	1710	D-14	RV932	F-10	RV982	F-4
D.	1711	A-6	114 333	1-10		

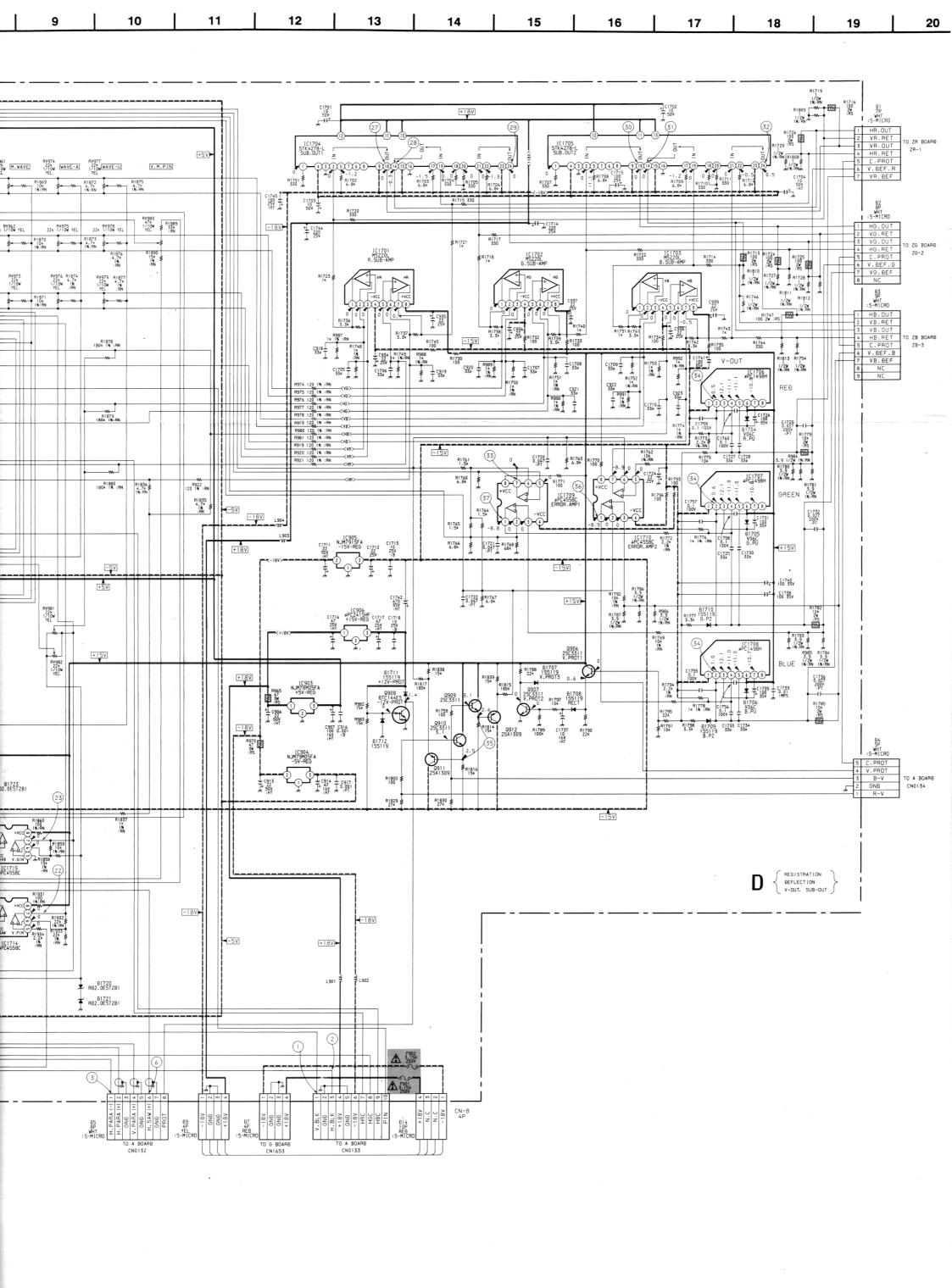


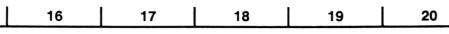




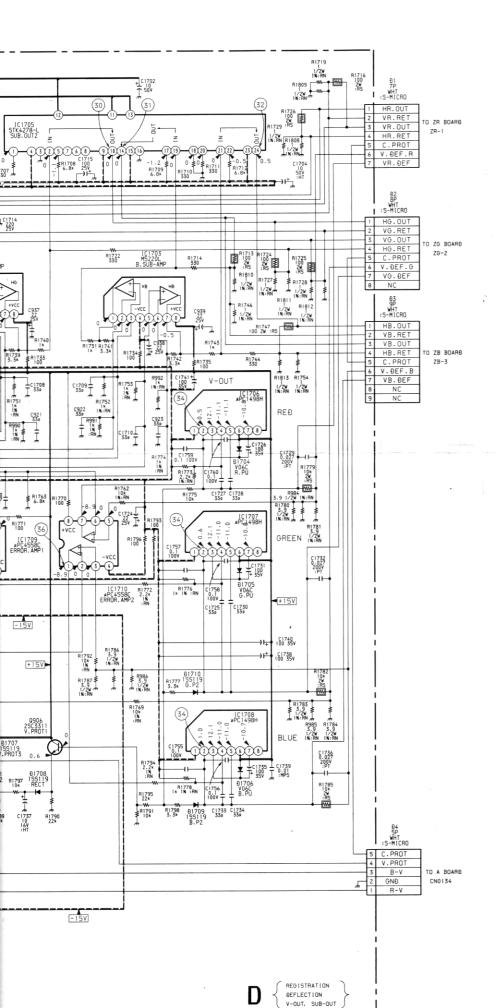
— 78 —

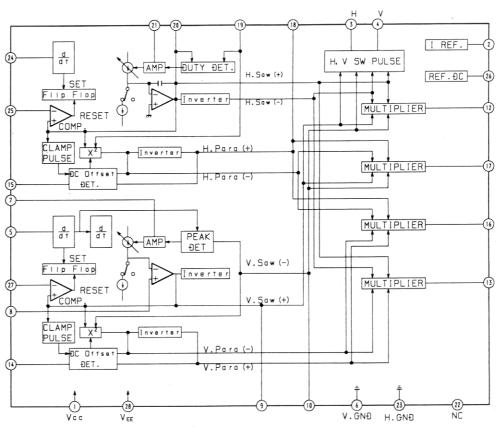


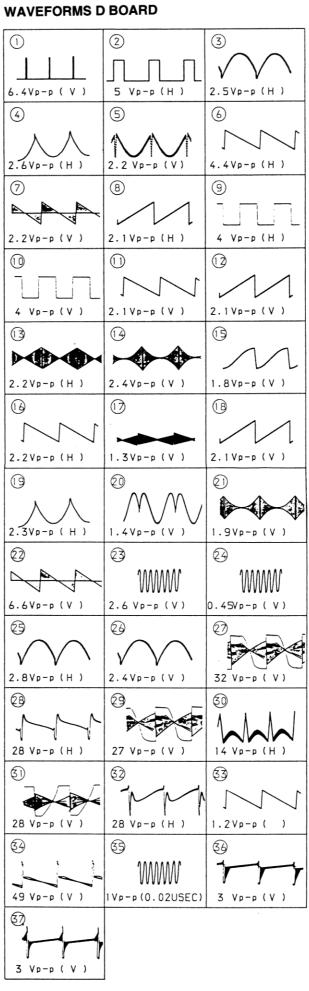


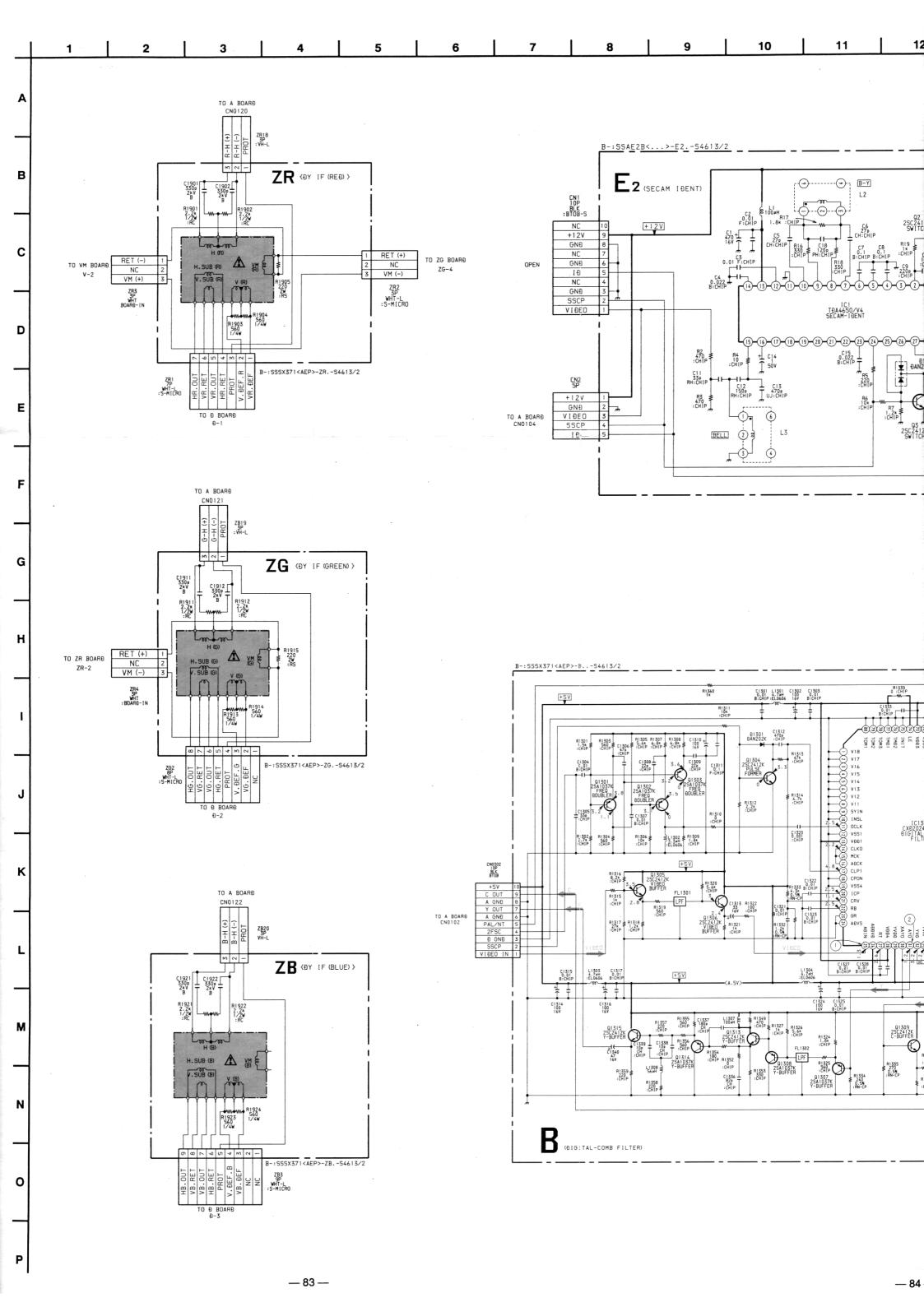


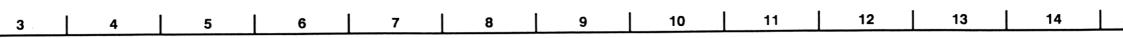
D BOARD IC902 CXA1268P

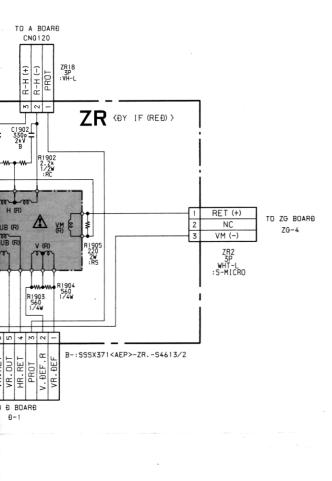


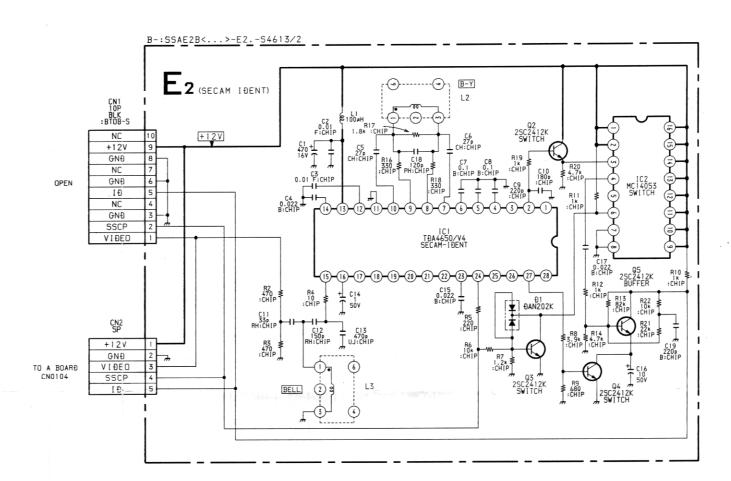


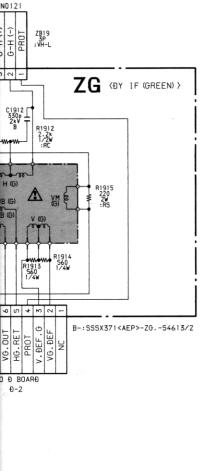






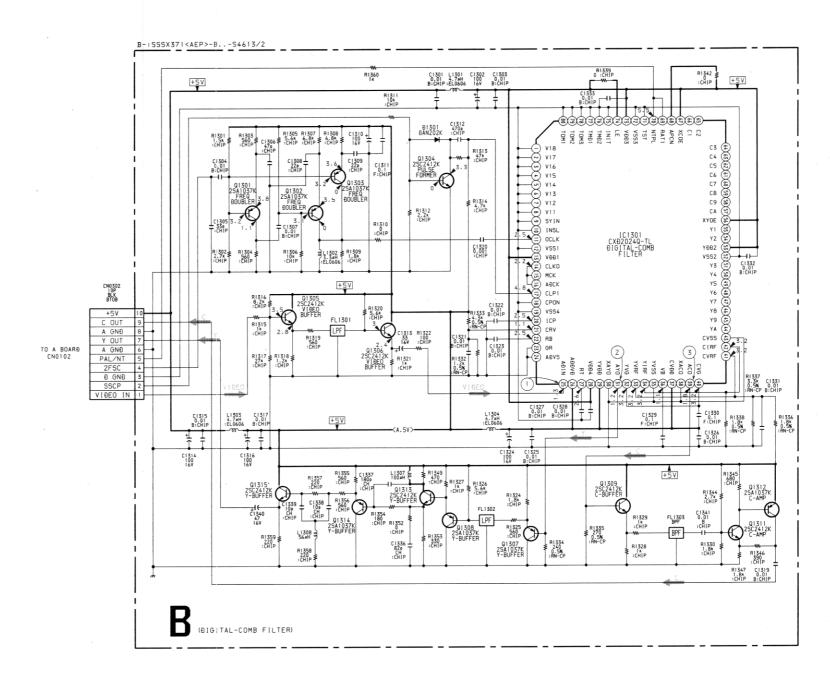






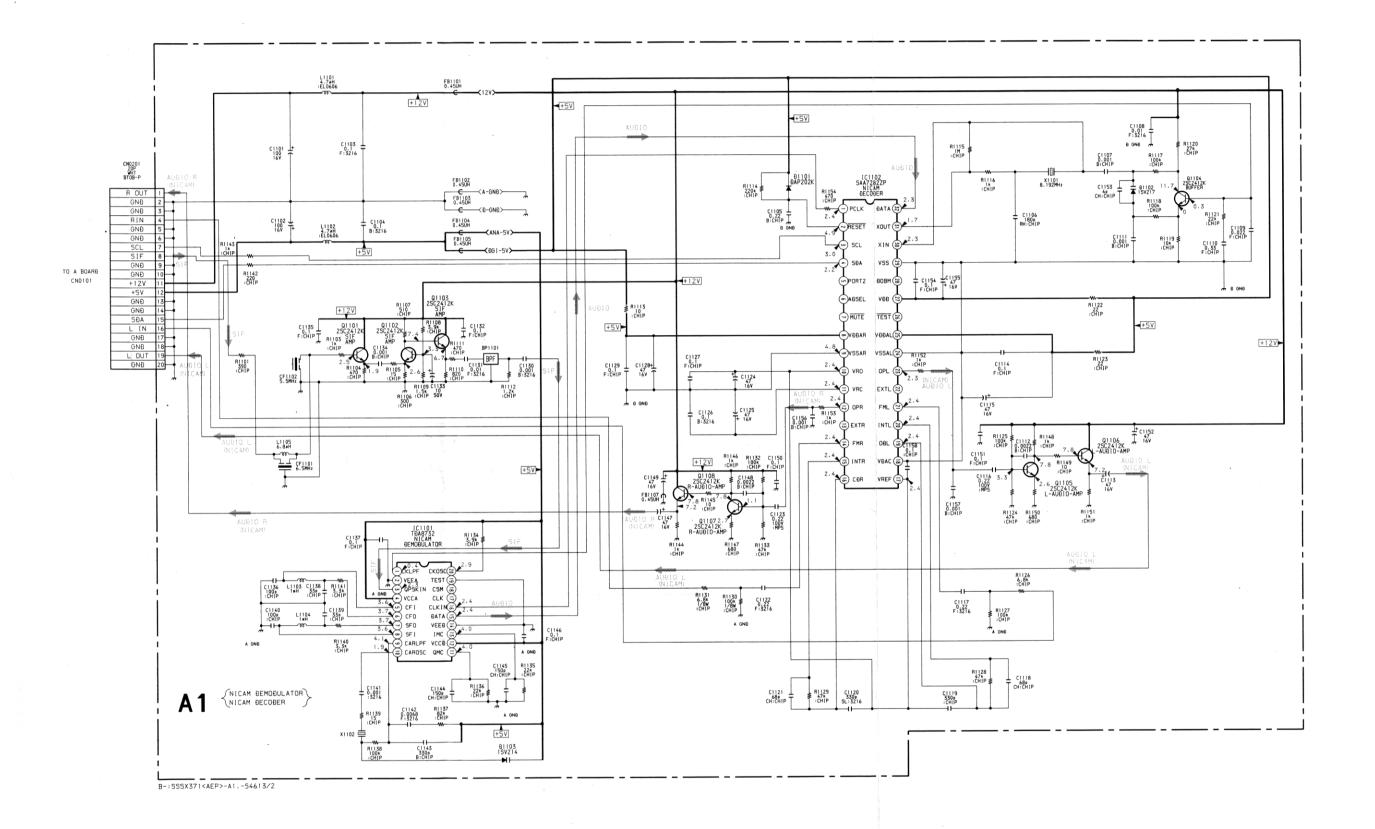
ZB (BY IF (BLUE))

TO A BOARE



B-:SSSX371<AEP>-ZB.-S4613/2

ZB3 9P WHT-L :S-MICRO







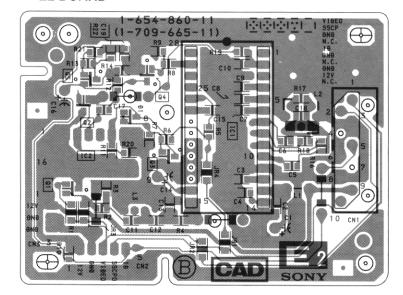




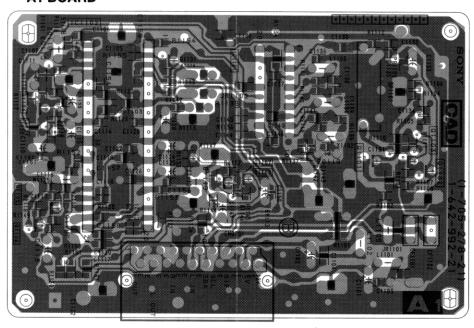




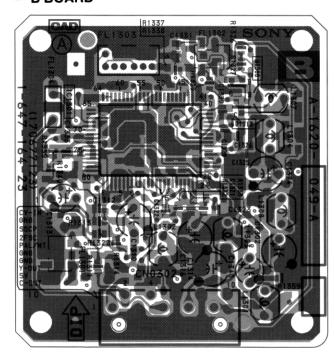
— E2 BOARD —

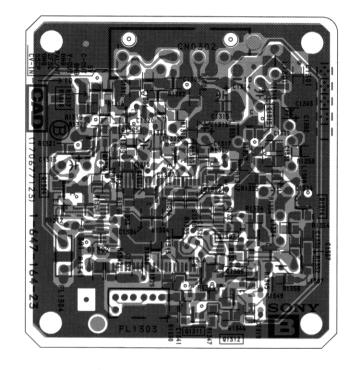


- A1 BOARD -



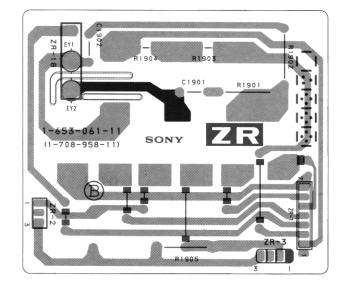
— B BOARD —



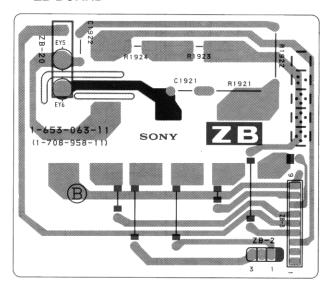


- : Pattern from the side which enables seeing.
- Pattern of the rear side.

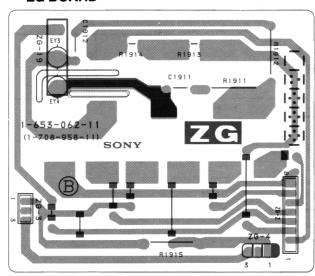
— ZR BOARD —

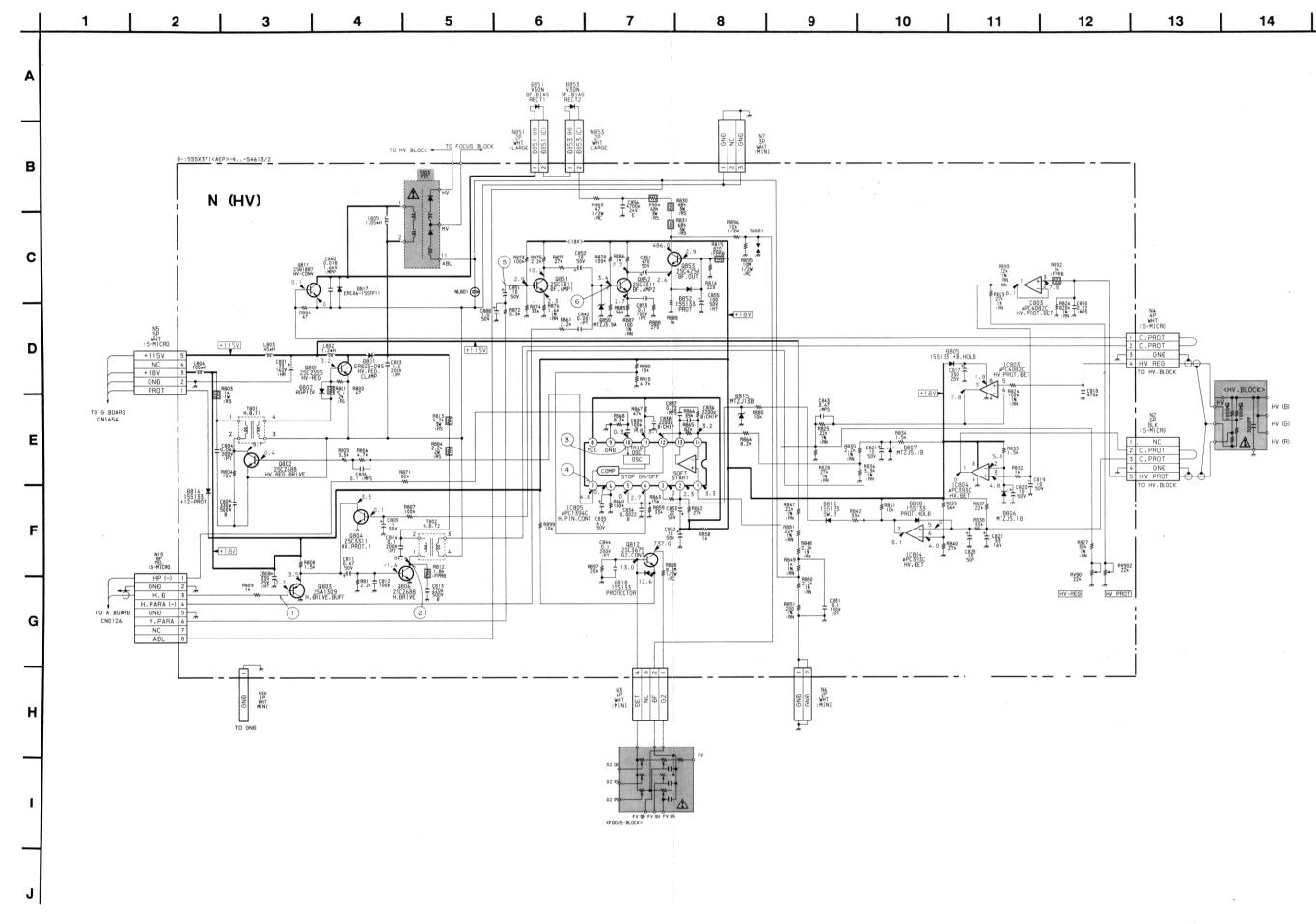


— ZB BOARD —



- ZG BOARD -

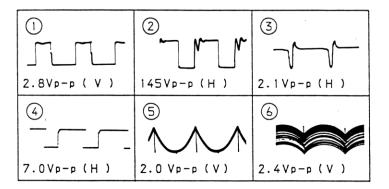




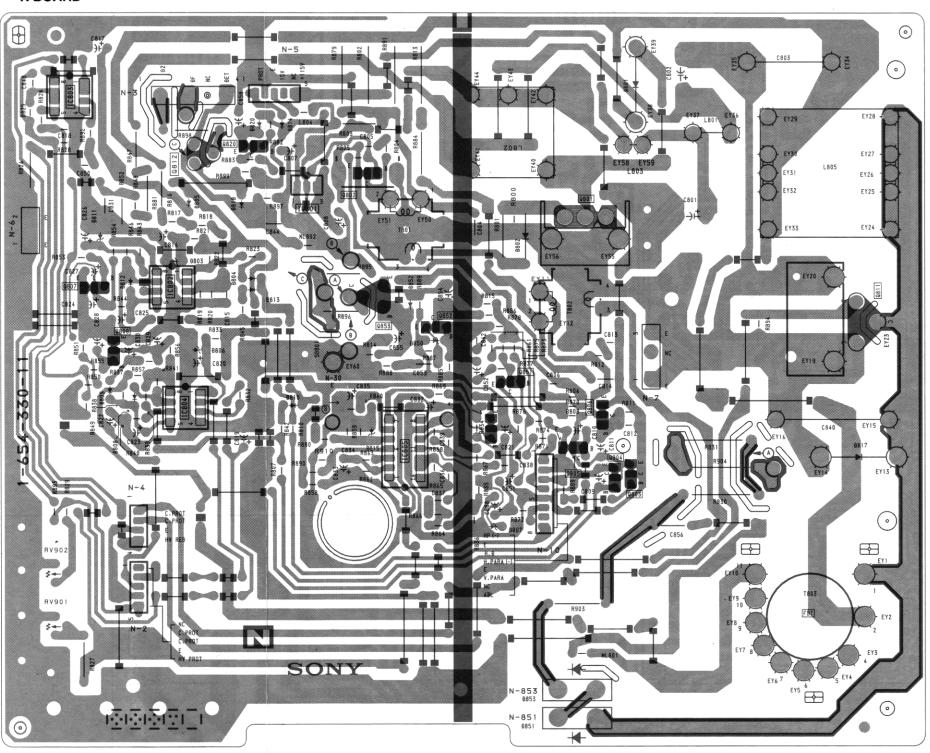
15



WAVEFORMS N BOARD

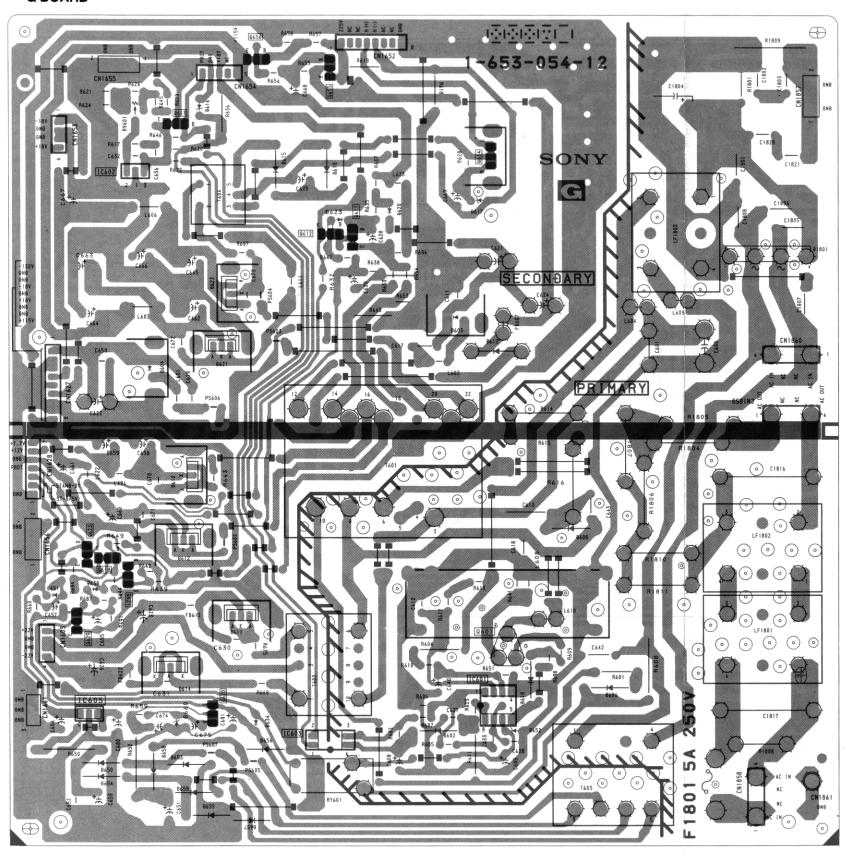


— N BOARD —

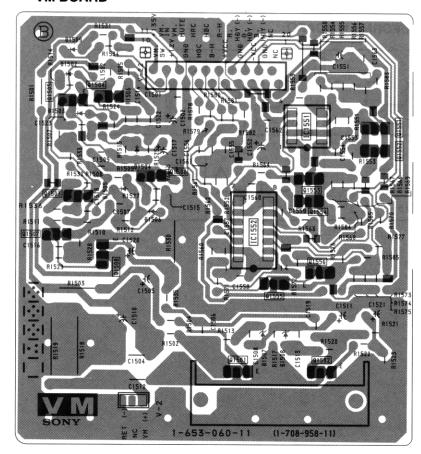




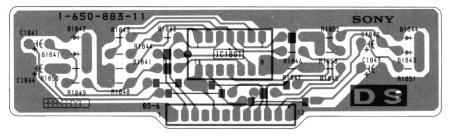
— G BOARD —

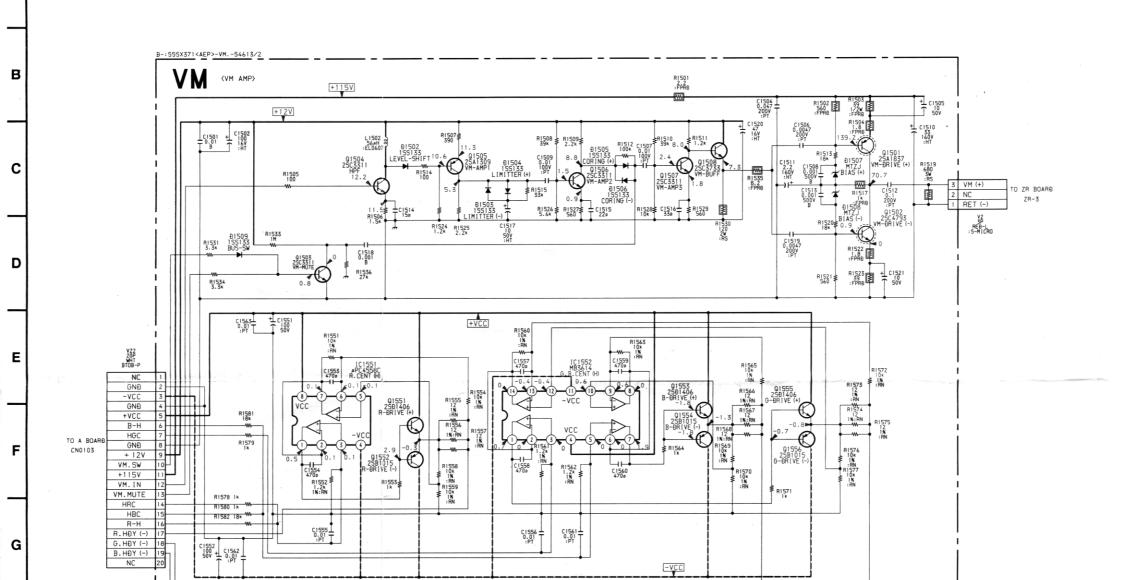


— VM BOARD —



- DS BOARD -

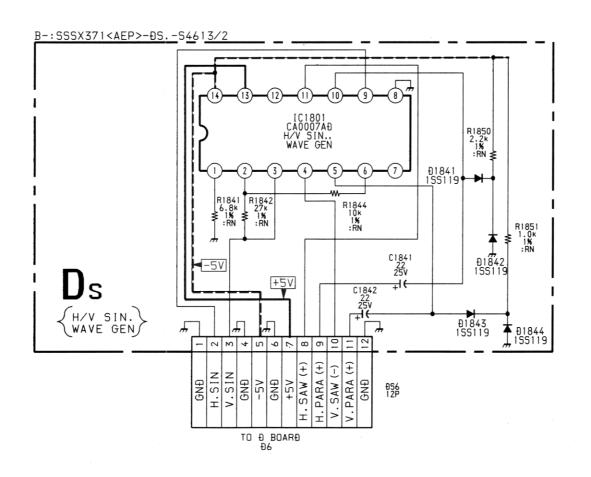


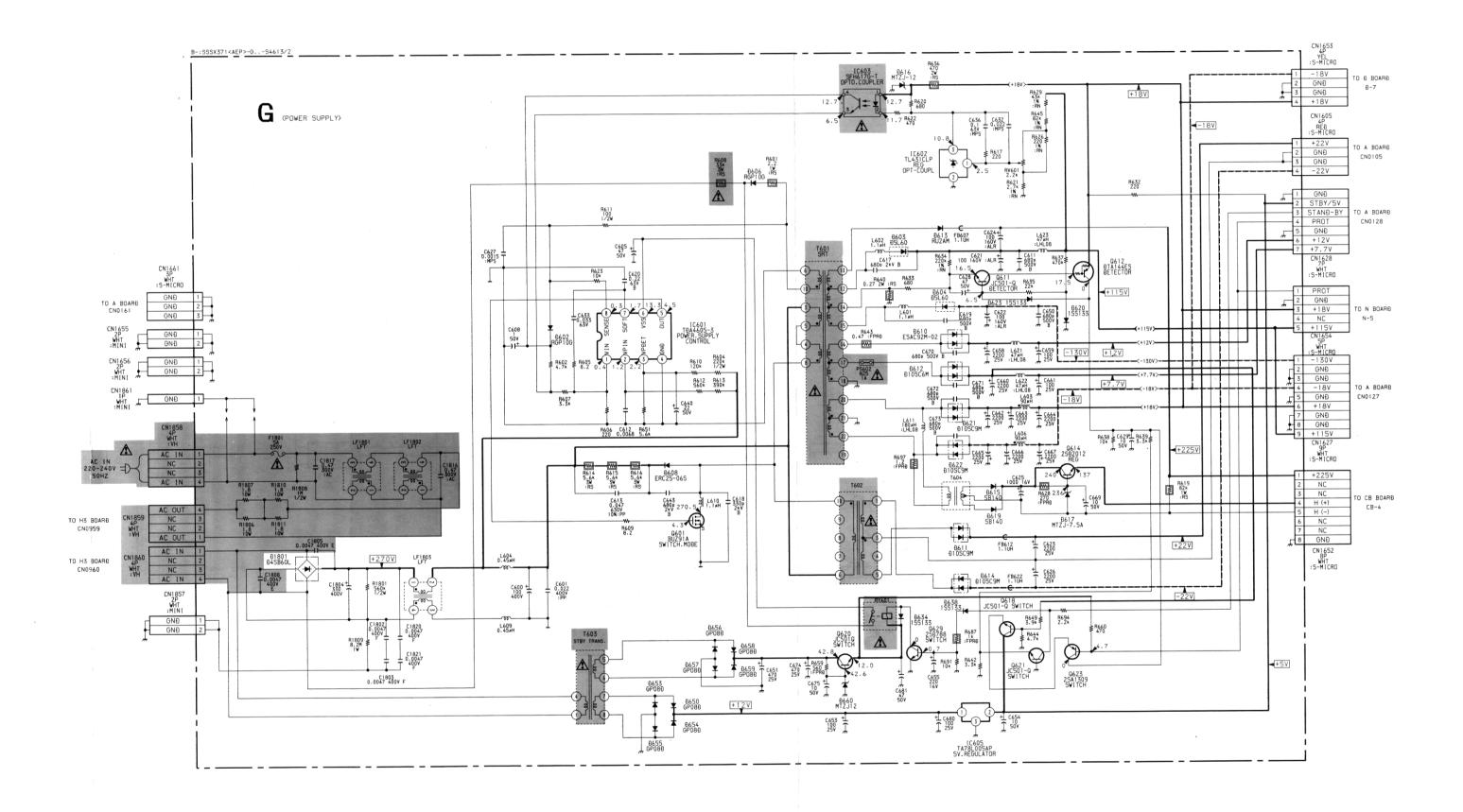


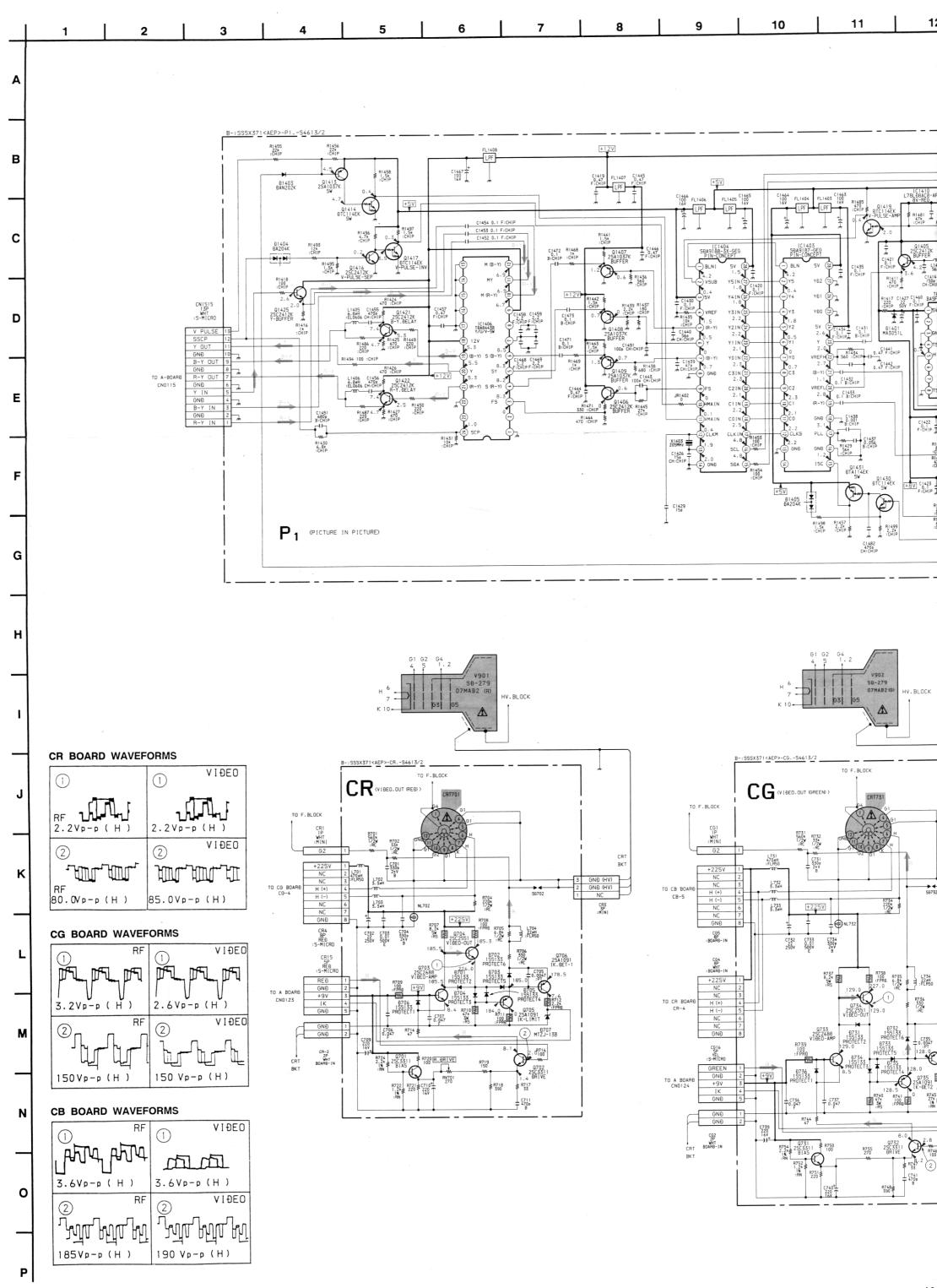
Α

M

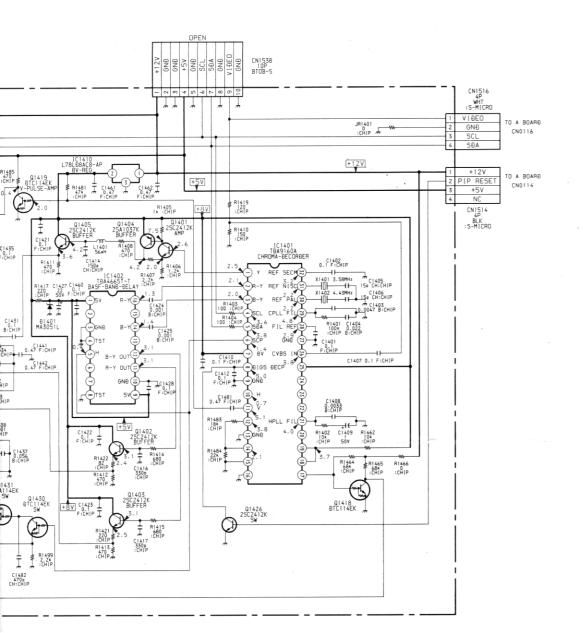
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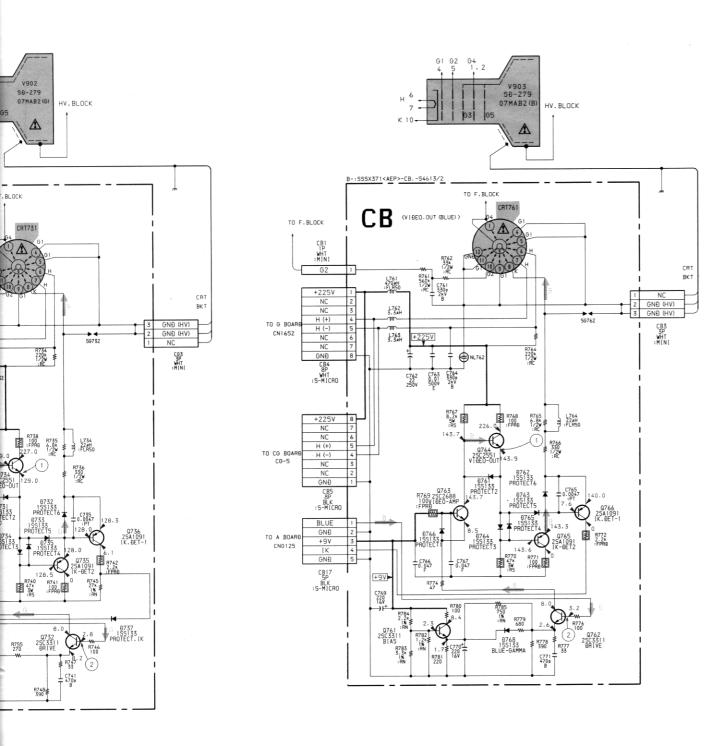






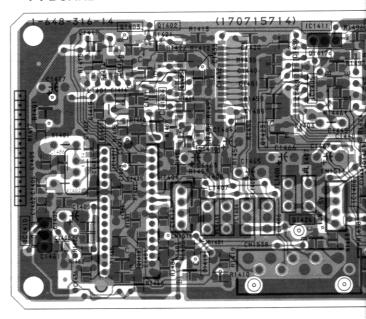


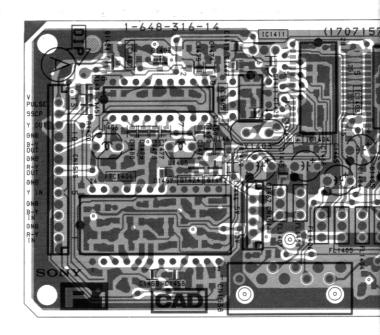




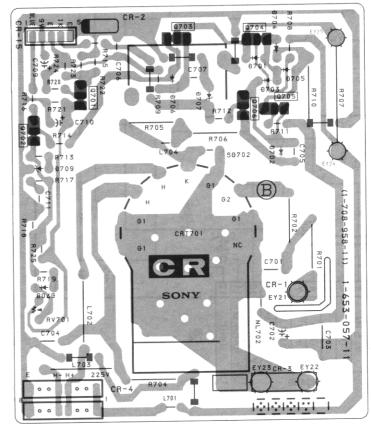


— P1 BOARD —





— CR BOARD —





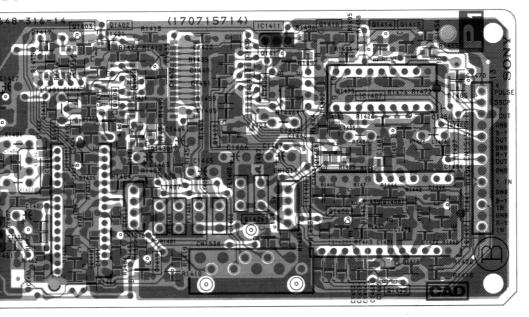


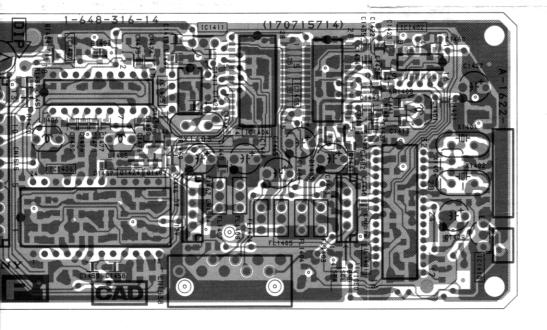




CB [VIDEO.OUT (BLUE)]

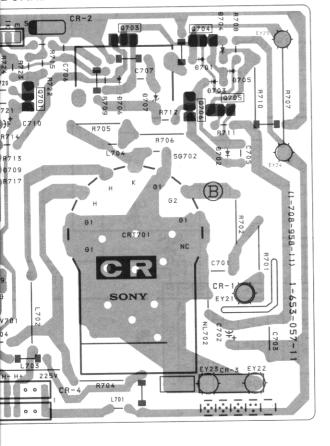
BOARD —



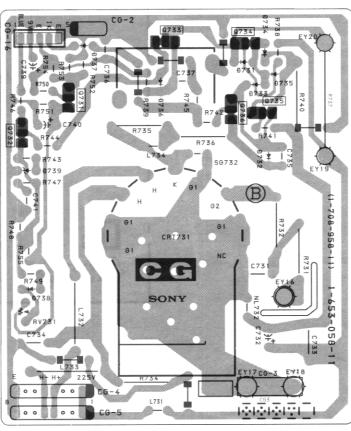


- Pattern from the side which enables seeing.
- : Pattern of the rear side.

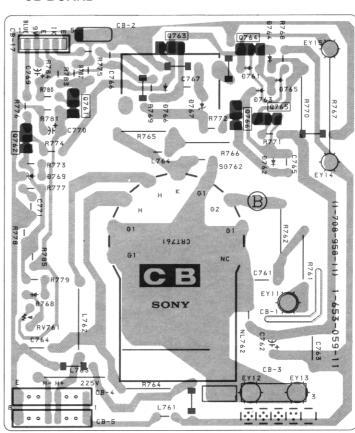
BOARD —

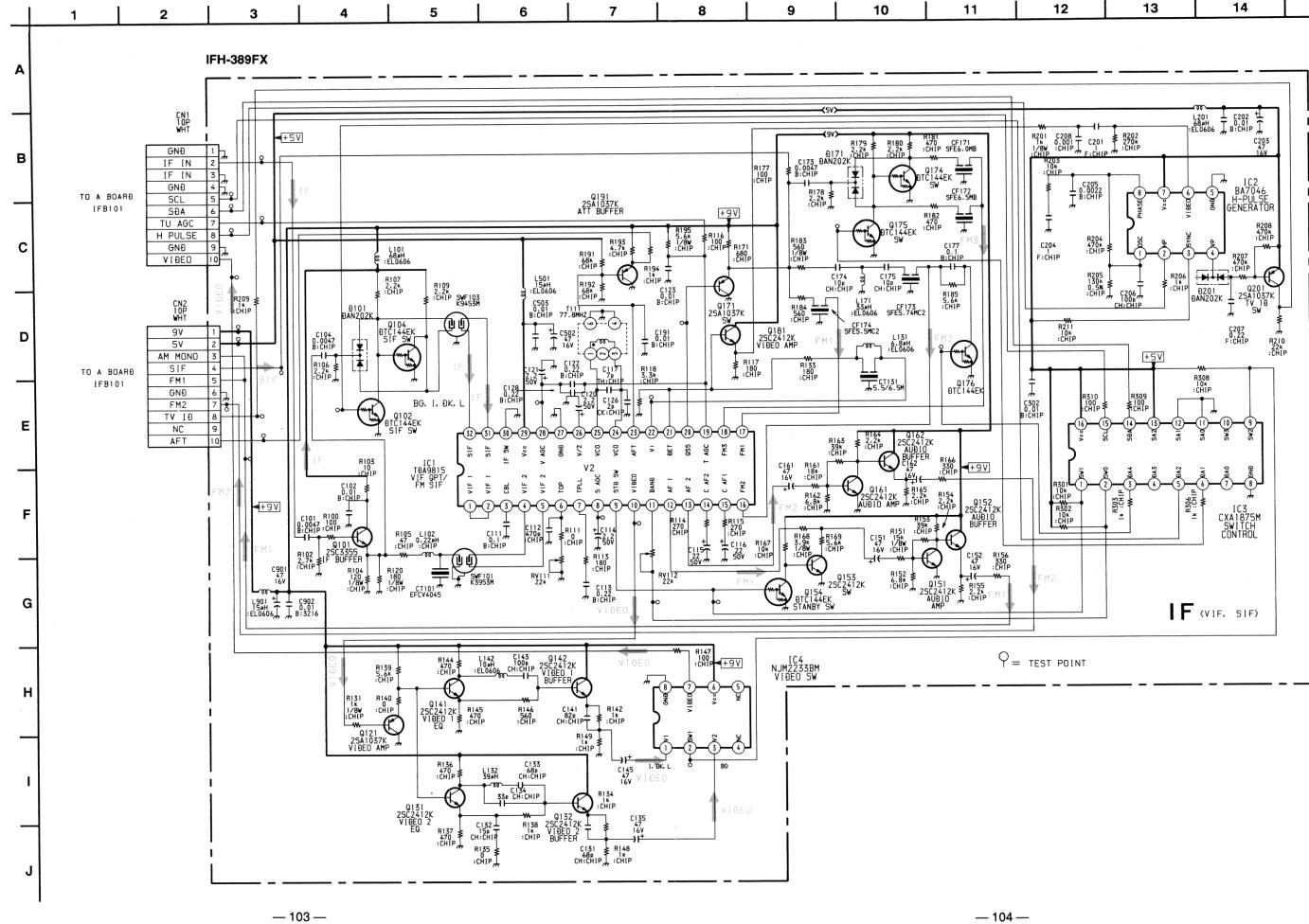


- CG BOARD -

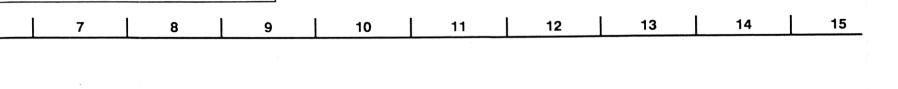


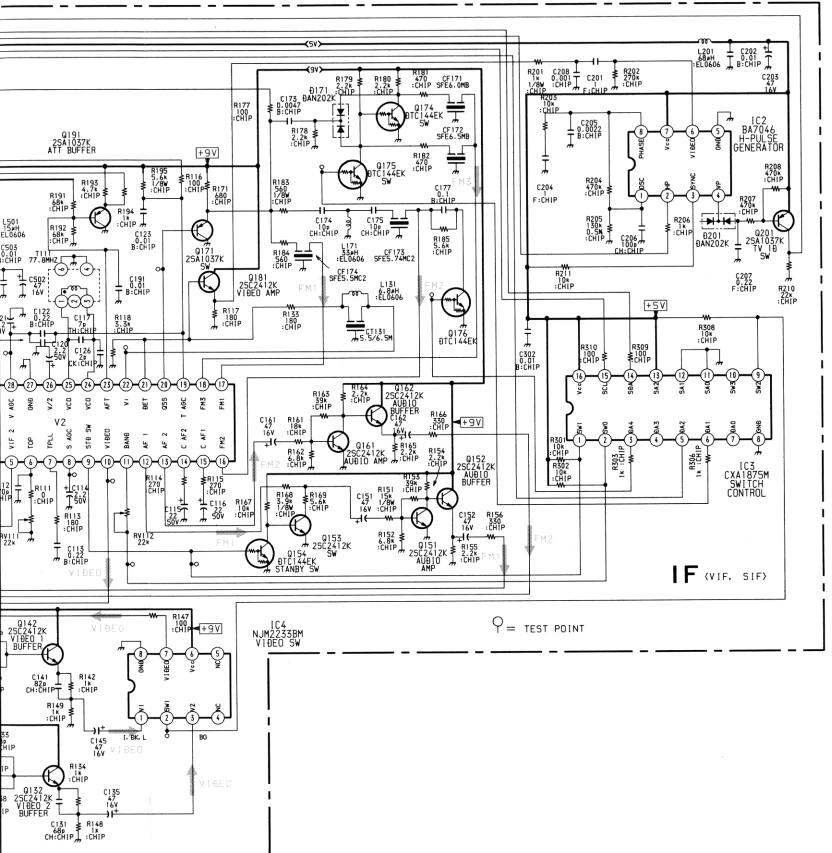
- CB BOARD -





15

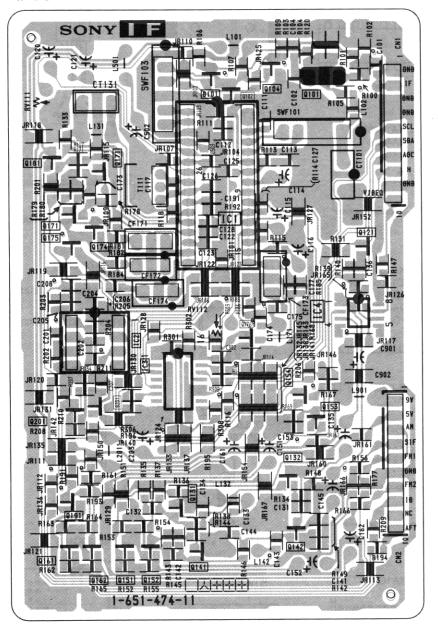




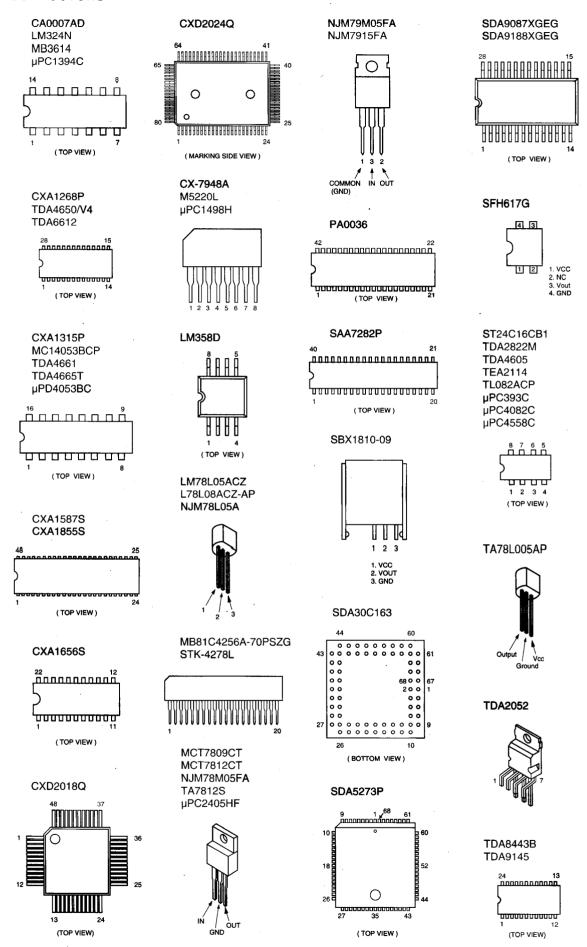
— 104 —



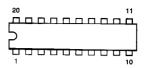
-IF BOARD-



5-4. SEMICONDUCTORS

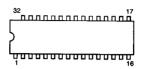






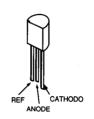
(TOP VIEW)

TDA9160A

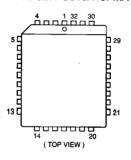


(TOP VIEW)

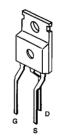
TL431CLP



TMS27PC010A15FMA



BUZ91A-E3155



DTA124EK 2SA1037K DTA144EK 2SA1162-G DTC114EK 2SC2412K DTC124EK 2SC1623-L5L6 DTC144EK 2SC2413K



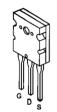
DTA144ES DTC144ES



JC501 2SA1013-O 2SA1091-O 2SA1837 2SC2551-O 2SD788-5



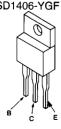
2SA1301-O



2SA1309A-Q 2SA1175-HFE 2SC2785-HFE 2SC3311A-QRS



2SB1015 2SB1094-**LK** 2SC3675 2SD1406-YGF



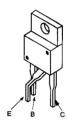
2SB649A-C 2SC2688-LK



2SC3733



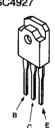
2SC4256CB 2SC4632-CB7



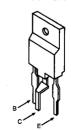
2SC4793



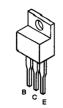
2SC4927



2SD1887-CA



2SD2012



DAN202K





DAP202K



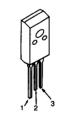


DA204K 1SS226

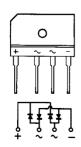


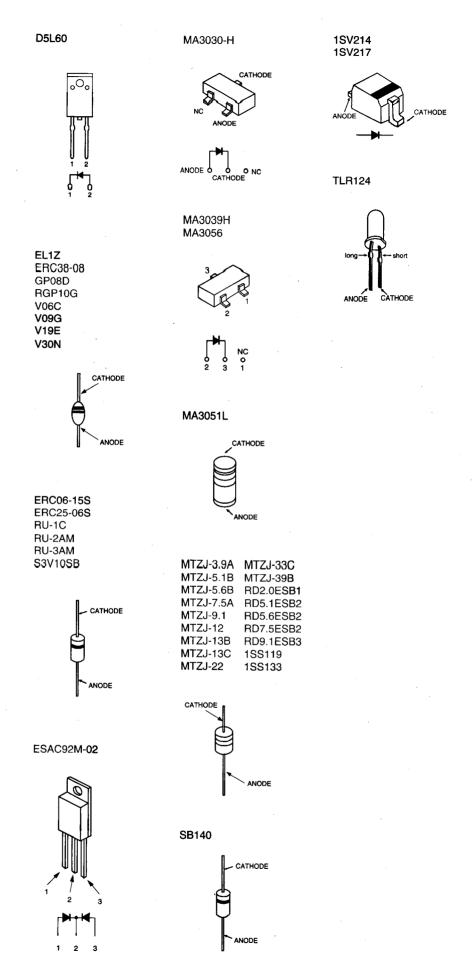


D10SC6M D10SC9M



D4SB60L





SECTION 6

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked $\sqrt{!}$ are critical for safety.

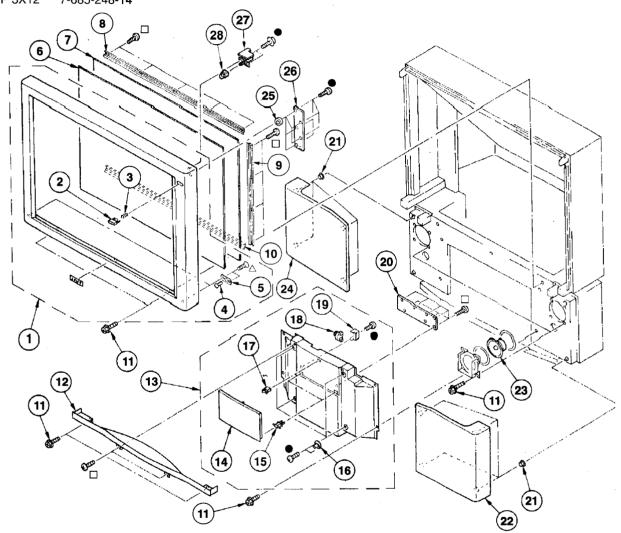
Replace only with the part number specified.

6-1. CONTROL PANEL

●: BVTP 3X12 7-685-648-79

: BVTP 4X12 7-685-661-**79**

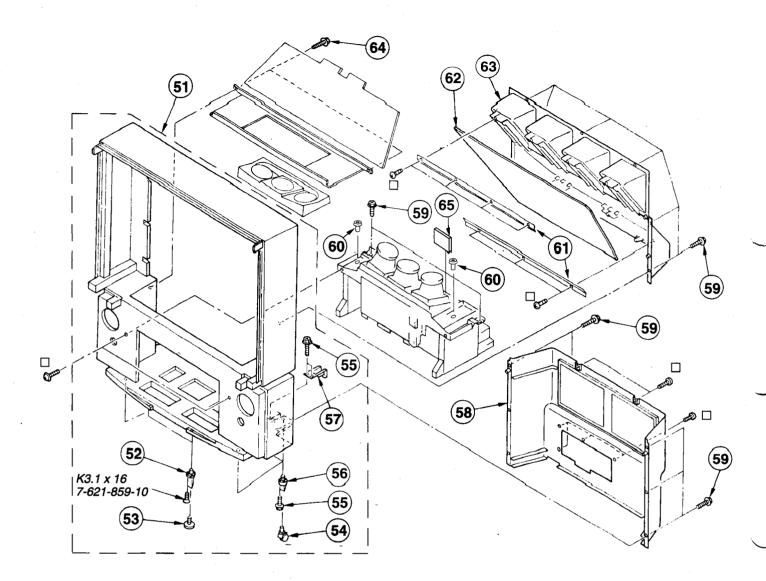
△: KTP 3X12 7-685-248-14



						\sim	
REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
1	X-4030-609-1	FRAME ASSY, SCREEN	2-5	15	3-703-035-12	SHAFT, LID	
2	4-037-635-01	BUTTON, POWER		16	4-843-806-00	STRIKE	
3	3-308-717-00	SPRING, COMPRESSION		17	4-392-036-01	CATCHER, PUSH	
4	4-838-452-00	STRIKE		18	3-721-204-21	DAMPER	
5	4-838-453-00	SUPPORT		19	4-397-047-01	HOLDER, DAMPER	
6	4-037-360-11	PLATE (L), DIFFUSION		20	*1-644-711-11	H2 BOARD	
7	4-037-359-11	PLATE (F), DIFFUSION		21	4-838-438-00	LATCH	
8	4-036-091-51	HOLDER (L) SCREEN		22	X-4030-569-1	GRILLE (R) ASSY.	SPEAKER
9	4-036-092-21	HOLDER (S) SCREEN		23	1-504-145-11	SPEAKER (12CM)	
10	4-036-091-21	HOLDER (S) SCREEN		24	X-4030-570-1	GRILLE (L) ASSY,	SPEAKER
11	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD)	25	7-688-000-29	WASHER 10 BLOCK	-
12	4-037-629-01	ESCUTCHEON, FRONT, FINAL		26	*1-644-710-11	H1 BOARD	
13	X-4030-605-1	PANEL ASSY, CONTROL	14-19	27	*1-644-712-11	H3 BOARD	
14	4-037-632-01	LID, FINAL CONTROL		28	4-037-636-01	ADAPTOR, BUTTON	

6-2. CABINET

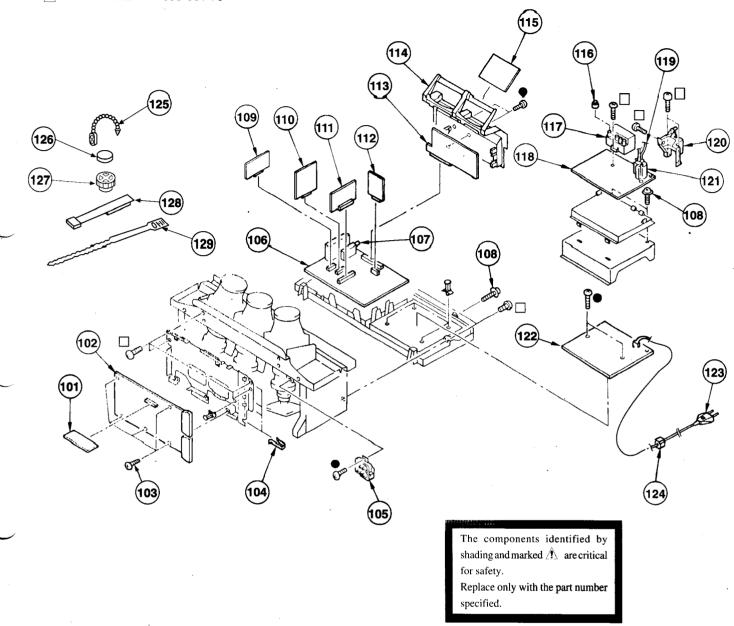
: BVTP 4X12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
51	X-4 030-603-1	CABINET ASSY	52-57	58	X-4 030-604-3	COVER ASSY, BACK	
52	4-037-473-01	NUT, FITTING		59	4-378-522-31	SCREW, TAPPING, HEXAGON HE	AD
53	4-037-472-01	LEG, ADJUSTABLE		60	4-202-887-01	RIVET ALUMINIUM	
54	4-032-343-11	CASTER		61	4-037-351-01	HOLDER MIRROR	
55	4-378-522-11	SCREW, TAPPING, HEXAGON HEAD	1	62	4-037-534-01	MIRROR (46), REFLECTION	
56	4-030-850-01	SOCKET, CASTER		63	4-036-462-01	COVER (46"), MIRROR	
57	4-037-639-01	BRACKET, AC CORD		64	4-378-522-21	SCREW, TAPPING, HEXAGON HE	AD
		•		65	A-1642-141-A	E2 BOARD, COMPLETE	

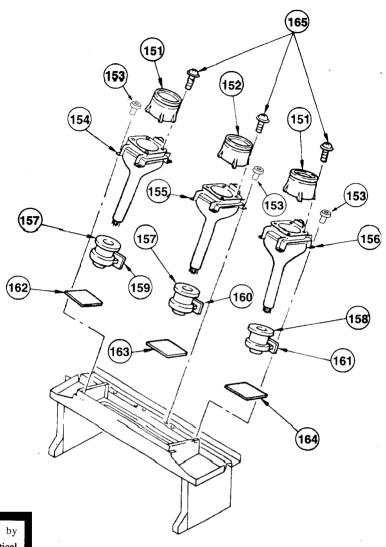
6-3. CHASSIS

●: BVTP 3x12 7-685-648-79
□: BVTP 4x12 7-685-661-79



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION	REMARK
101 102 103 104 105 106 107 108 109	*1-650-883-12 *A-1640-159-A 4-302-428-03 *4-393-401-01 *1-241-744-11 *A-1632-207-A 1-693-185-11 3-701-810-91 *A-1630-303-A	DS BOARD D BOARD, COMPLETE SCREW (WASHER HEAD) SPRING, TRANSISTOR RESISTOR ASSY (HIGH- A BOARD, COMPLETE TUNER (UV916H) SCREW, TERMINAL A1 BOARD, COMPLETE	(+P 3X12)	116 118 119 120 121 122 123 124	4-373-137-01	DESCRIPTION CAP (Z), RUBBER DC BLOCK, HIGH-VOLTAGE N BOARD, COMPLETE LEAD ASSY, HIGH-VOLTAGE COVER, FBT TRANSFORMER ASSY, FLYBACE G BOARD, COMPLETE CORD, POWER HOLDER, AC CORD	
110 111 112 113 114 115	*A-1644-054-A *A-1635-029-A *A-1620-049-A *A-1388-158-A *4-037-620-01 -*A-1622-006-A	VM BOARD, COMPLETE M2 BOARD, COMPLETE B BOARD, COMPLETE J BOARD, COMPLETE BRACKET, J P1 BOARD, COMPLETE		125 126 127 128 129	4-308-870-00 1-452-032-00 1-452-094-00 X-4387-214-1 3-701-007-00	CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DISK: PERMALLOY ASSY, CORRECTION BAND, BINDING	

6-4. PICTURE TUBE



The components identified by shading and marked $\hat{\Lambda}$ are critical for safety.

Replace only with the part number specified.

REF NO	PART NO	DESCRIPTION REN	IARK REF	O PART NO	DESCRIPTION	REMARK
151 152 153 154 A 155 A 156 A 157 A	4-034-057-01 4-034-057-11 4-202-887-01 8-736-074-05 8-736-072-05 8-736-073-05 8-451-441-11 8-451-441-21	LENS (LINNIT) LENS (LINNIT) RIVET ALMINIUM PICTURE TUBE (SD-279) (07MAB2 PICTURE TUBE (SD-279) (07MAB2 PICTURE TUBE (SD-279) (07MAB2 PICTURE TUBE (SD-279) (07MAB2 DEFLECTION YOKE (Y829PA (R,G)) DEFLECTION YOKE (Y829PAN2 (B))	(G)) 163 (B)) 164 165	*1-653-061-11 *1-653-062-11 *1-653-063-11 *A-1638-049-A *A-1638-051-A *A-1638-050-A 3-701-810-91	ZB BOARD CR BOARD, COMPLETE	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, μH: mH

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

• All resistors are in ohms

F: nonflammable

H1 H2 H3 J

,											L
	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	ON			REMARK
		*1-644-710-11	H1 BOARD		JR082	1-216-296-00	METAL GLAZE	0	5%	1/8W	
					R082	1-249-429-11	CARBON	10K	5%	1/4W	
		4-033-777-01			R083	1-249-425-11	CARBON	4.7K		1/4W	
		*4-374-987-01			R084	1-249-421-11		2.2K		1/4W	
		4-381-686-01	BRACKET (B), LIGHT GUIDE		R085	1-216-053-00		1.5K		1/10	
		- CON	NECTOR >		R086	1-216-053-00	METAL GLAZE	1.5K	5%	1/10	A
		COL	MECTOR >			< SWI	TCH >				
	CN0732	*1-564-522-11	PLUG, CONNECTOR 7P		-						
					S082	1-571-731-11					
		< DIC	DDE >		S083	1-571-731-11					
	D092	0 710 010 41	DIODE MID134		S084	1-571-731-11	SWITCH, TACT	IL			
	D092		DIODE TLR124 DIODE TLR124		******	*******	******	*****	*****	*****	******
	D094		DIODE TLR124								
						*1-644-712-11	H3 BOARD				
		< IC	>				******				
	IC091	8-741-810-09	IC SBX1810-09			< CON	NECTOR >				
		< RES	SISTOR >		CN0959 A	*1-580-689-11	PIN, CONNECT	OR (PC	BOARD) 4P	
	R091	1-249-413-11	CARBON 470 5%	1/4W	CNU96U	*1-580-689-11	PIN, CONNECT	OR (PC	BUAKD) 4P 📲	·
						< SWI	TCH >				
	******	***********	*************** ***	******	Targe Ma		ara-man		nas Fr		
		*1-644-711-11	H2 BOARD			1-692-293-11				****	
		. (1)	A CTMOD								
		< CAL	PACITOR >			*A-1388-158-A	J BOARD, COM	PLETE			
	C083 C084	1-101-005-00 1-101-005-00		50V 50V		< CAP	ACITOR >				
		< COM	NECTOR >		C250	1-163-133-00	CEDANTO CUTT	47000		5%	50V
		C 01	WECTOR >		C281	1-124-442-00		330MF		20%	6.3V
	CN0808	*1-564-525-11	PLUG, CONNECTOR 10P		C291	1-101-005-00		0.022M	F	40.0	50V
	CN0819		PLUG, CONNECTOR 3P		C292	1-101-005-00		0.022M			50V
	CN0831	*1-564-519-11	PLUG, CONNECTOR 4P		C293	1-102-125-00	CERAMIC	0.0047	MF	10%	50V
		< JA0	י עי		C294	1-102-125-00	CEDANTO	0 0047	ve	10%	E 017
		\ UAC			C295	1-163-009-11		0.0047 0.001m		10%	50V 50V
	J081	1-565-931-11	TERMINAL BLOCK, S 3P		C296	1-163-009-11			_	10%	50V
	J082	1-691-293-11			C901	1-163-017-00				10%	50V
					C902	1-163-017-00				10%	50V
		< CO1	IL >		2004					=0	F.A
	L081	1_400_400_00	TNIDITOTION 101111		C904	1-163-133-00				5%	50V
	L081	1-408-409-00 1-408-409-00			C905 C906	1-163-133-00 1-101-004-00			ı	5%	50V 50V
	D.O.D	7-400-403-00	INDUCTOR IOON		C906	1-163-133-00		0.01MF 470PF		5%	50V 50V
		< RES	SISTOR >		C908	1-163-133-00				5%	50V
	JR081		METAL GLAZE 0 5%	1/8W	C909	1-101-004-00		0.01MF	ı		50V
					•						

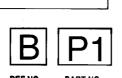


REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C910 C911 C912 C913	1-163-017-00 1-163-017-00 1-163-133-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	10% 10% 5% 5 %	50V 50V 50V 50V	D922 D923 D924 D925	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A		
C914 C915 C916 C917 C918	1-163-121-00 1-163-017-00 1-163-017-00	CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 470PF	5% 5% 10% 10% 5%	50V 50V 50V 50V 50V	D926 D927 D928	8-719-923-60 8-719-923-60 8-719-923-60 < SOC	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A KET >	L	
C919 C920 C921 C922 C923	1-124-477-11	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF	5% 10% 10% 20%	50V 50V 50V 16V	J291 J901 J903 J904	1-695-296-11 1-695-549-11 1-695-296-11	·	S	PUT
C924 C925 C926 C927 C928	1-124-477-11 1-124-477-11 1-164-346-11 1-124-477-11 1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF ELECT 47MF	20% 20% 20% 20%	16V 16V 16V 16V 16V	J905 J906 J907	1-695-549-11 1-695-293-11 1-695-296-11 1-695-549-11 1-695-293-11	SOCKET, PIN 21E SOCKET 21P; JS TERMINAL BLOCK, SOCKET, PIN 21E SOCKET 21P; JS	005 S	
C929	1-124-477-11		20%	16V		< COI	L >		
C930 C931 C932 C933	1-124-477-11 1-124-477-11 1-164-346-11 1-124-477-11	ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20%	16V 16V 16V 16V	L291 L292 L294 L295	1-402-711-11 1-402-711-11	INDUCTOR, WIDER INDUCTOR, WIDER INDUCTOR, WIDER INDUCTOR, WIDER	BAND BAND	
C934 C935 C936 C937 C938		ELECT 47MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	20% 20% 20%	16V 16V 16V 16V 16V	Q281 Q282 Q283	< TRA 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC	2412K-QR	
	< CON	NECTOR >				< RES	SISTOR >		
CN1209 CN1210 CN1240	*1-564-522-11 *1-564-519-11	CONNECTOR, BOARD TO BO PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P	ARD 50P		JR201 JR901 JR905 JR909	1-216-296-00 1-216-295-91 1-216-296-00 1-216-296-00	METAL GLAZE (METAL GLAZE (METAL GLAZE (5% 5% 5%	1/8W 1/10W 1/8W 1/8W
	< DIC				JR910	1-216-296-00	METAL GLAZE () 5%	1/8W
D201 D202 D203 D204 D901	8-719-924-11 8-719-924-11 8-719-924-11	DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-22 DIODE MTZJ-9.1A		•	JR911 JR915 JR917 JR918 JR921	1-216-296-00 1-216-295-91 1-216-296-00 1-216-295-91 1-216-295-91	METAL GLAZE (METAL GLAZE (METAL GLAZE () 5%) 5%) 5%) 5%) 5%	1/8W 1/10W 1/8W 1/10W 1/10W
D902 D903 D904 D905 D906	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR923 JR924 JR926 JR927 JR928	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE (METAL GLAZE (METAL GLAZE () 5%) 5%) 5%) 5%) 5%	1/8W 1/8W 1/8W 1/8W 1/8W
D907 D908 D909 D910 D911	8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR935 JR939 JR940 JR942 JR944	1-216-296-00 1-216-295-91 1-216-295-91 1-216-171-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 75 5% 0 5%	1/8W 1/10W 1/10W 1/8W 1/10W
D912 D913 D914 D915 D916	8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A DIODE MTZJ-9.1A			JR946 JR947 JR952 JR954	1-216-296-00 1-216-295-91 1-216-296-00 1-216-295-91	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/8W 1/10W 1/8W 1/10W
D917 D918 D919 D920 D921	8-719-923-60 8-719-923-60 8-719-923-60	DIODE MTZJ-9.1A			R283 R284 R286 R287 R288	1-216-073-00 1-216-073-00 1-216-097-00 1-216-216-00 1-216-216-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10K 5% 100K 5% 5.6K 5% 5.6K 5%	1/10W 1/10W 1/10W 1/8W 1/8W





REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R289 R291 R292 R901 R902	1-216-055-00 1-249-413-11 1-249-413-11 1-216-039-00 1-216-039-00	METAL GLAZE CARBON CARBON METAL GLAZE METAL GLAZE	1.8K 5% 470 5% 470 5% 390 5% 390 5%	1/10W 1/4W 1/4W 1/10W 1/10W	R961 R965 R966 R967 R990	1-216-071-00 1-216-178-00 1-216-178-00 1-216-178-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 5% 150 5% 150 5% 150 5% 1.5K 5%	1/10W 1/8W 1/8W 1/8W 1/10W	
R903 R904 R905 R906 R907	1-216-113-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-178-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 470K 5% 390 5% 390 5% 150 5%	1/10W 1/10W 1/8W 1/10W 1/8W	R991 R992 R993 R994 R995	1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R908 R909 R910 R911 R913	1-216-178-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 5% 470K 5% 470K 5% 75 5% 3.9K 5%	1/8W 1/10W 1/10W 1/10W 1/10W	R996 R997 R998 R999	1-216-202-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE	1.5K 5% 1.5K 5% 1.5K 5% 1.5K 5%	1/8W 1/10W 1/10W 1/10W	*****
R914 R915 R916 R917 R919	1-216-063-00 1-216-113-00 1-216-113-00 1-216-022-00 1-216-063-00	METAL GLAZE METAL GLAZE	3.9K 5% 470K 5% 470K 5% 75 5% 3.9K 5%	1/10W 1/10W 1/10W 1/10W 1/10W			B BOARD, COMPLE			
R920 R921 R922 R923 R924	1-216-063-00 1-216-022-00 1-216-222-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 75 5% 10K 5% 390 5% 390 5%	1/10W 1/10W 1/8W 1/10W 1/10W	C1301 C1302 C1303 C1304 C1305	1-126-101-11 1-164-232-11	CERAMIC CHIP 0 ELECT 1 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 3	00MF .01MF .01MF	10% 20% 10% 10% 5%	50V 16V 50V 50V 50V
R925 R926 R927 R928 R929	1-216-089-00 1-216-039-00 1-216-039-00 1-216-089-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 390 5% 390 5% 47K 5% 3.9K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1306 C1307 C1308 C1309 C1310	1-163-109-00 1-164-232-11 1-163-101-00 1-163-101-00 1-126-101-11	CERAMIC CHIP 2 CERAMIC CHIP 2	.01MF 2PF	5% 10% 5% 5% 20%	50V 50V 50V 50V 16V
R930 R931 R932 R933 R934	1-216-113-00 1-216-212-00 1-216-113-00 1-216-073-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 3.9K 5% 470K 5% 10K 5% 3.9K 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C1311 C1312 C1313 C1314 C1315	1-163-038-91 1-163-133-00 1-104-792-51 1-126-101-11 1-164-232-11		70PF 3MF 00MF	5% 20% 20% 10%	25V 50V 16V 16V 50V
R935 R937 R938 R939 R940	1-216-022-00 1-216-113-00 1-216-039-00 1-216-188-00 1-216-063-00	METAL GLAZE METAL GLAZE	75 5% 470K 5% 390 5% 390 5% 3.9K 5%	1/10W 1/10W 1/10W 1/8W 1/10W	C1316 C1317 C1319 C1320 C1321	1-126-101-11 1-164-232-11 1-164-232-11 1-163-141-00 1-164-232-11	CERAMIC CHIP 0 CERAMIC CHIP 0	.01MF	20% 10% 10% 5% 10%	16V 50V 50V 50V 50V
R941 R942 R943 R944 R945	1-216-113-00 1-216-188-00 1-216-089-00 1-216-188-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 390 5% 47K 5% 390 5% 47K 5%	1/10W 1/8W 1/10W 1/8W 1/10W	C1322 C1323 C1324 C1325 C1326	1-164-232-11 1-164-232-11 1-126-101-11 1-164-232-11 1-164-232-11	CERAMIC CHIP 0	.01MF .00MF .01MF	10% 10% 20% 10% 10%	50V 50V 16V 50V 50V
R946 R947 R948 R949 R950	1-216-022-00 1-216-178-00 1-216-073-00 1-216-113-00 1-216-063-00	METAL GLAZE METAL GLAZE	75 5% 150 5% 10K 5% 470K 5% 3.9K 5%	1/10W 1/8W 1/10W 1/10W 1/10W	C1327 C1328 C1329 C1330 C1331	1-163-038-91	CERAMIC CHIP 0	.01MF .1MF .1MF	10% 10% 10%	50V 50V 25V 25V 50V
R951 R952 R953 R954 R955	1-216-063-00 1-216-113-00 1-216-188-00 1-216-039-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 470K 5% 390 5% 390 5% 390 5%	1/10W 1/10W 1/8W 1/10W 1/10W	C1332 C1333 C1336 C1337 C1338	1-164-232-11		0.01MF 12PF 180PF	10% 10% 5% 5% 0.5PF	50V 50V 50V 50V
R956 R957 R958 R959 R960	1-216-089-00 1-216-039-00 1-216-089-00 1-216-071-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 390 5% 47K 5% 8.2K 5% 8.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1339 C1340 C1341	1-163-227-11 1-124-477-11 1-164-232-11		17MF	0.5PF 20% 10%	50V 16V 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	< CON	DESCRIPTION INECTOR > COMNECTOR, BOARD TO BOARD 1 DDE > DIODE DAN202K CAPSULATED FILTER > FILTER, LOW PASS FILTER, LOW PASS FILTER, BAND PASS > IC CXD2024Q IL > INDUCTOR 4.7UH INDUCTOR 3.3UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 4.7UH INDUCTOR 56UH ANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R1321	1-216-049-00			1/10W	
CN0302	1-573-299-21	CONNECTOR BOARD TO BOARD 1	ΛD	R1322	1-216-025-00 1-216-055-00	METAL GLAZE 100	5% K 5%	1/10W 1/10W	
0.11000	1 3/3 237 21	ONE .	VI	R1325	1-216-043-91	METAL GLAZE 560	5%	1/10W	Ī
	< DTC	JUE >		K1326	1-216-067-00		K 5%	1/10W	
D1301	8-719-914-43	DIODE DAN202K		R1327 R1328	1-216-049-00 1-216-049-00		5% 5%	1/10W 1/10W	
	< ENC	APSULATED FILTER >		R1329	1-216-049-00 1-216-055-00	METAL GLAZE 1K	5% K 5%	1/10w 1/10w	7
FL1301	1-239-550-41	FILTER, LOW PASS		R1332	1-208-784-11	METAL CHIP 1.2	K 0.50	% 1/10W	1
FL1302 FL1303	1-239-550-41	FILTER, LOW PASS FILTER, BAND PASS		R1333	1-216-666-11		K 0.50	% 1/10W	1
,	- TC	_		R1334	1-208-767-11	METAL CHIP 240		% 1/10W	
	< 10			B1336	1-216-637-11 1-216-657-11		K 0.50	% 1/10พ ๛ 1/1กษ	
IC1301	8-752-357-88	IC CXD2024Q		R1337	1-216-663-11		K 0.50		
	< COI	IL >		R1338	1-216-657-11	METAL CHIP 1.8	K 0.50	% 1/10W	I
				R1339	1-216-295-91	METAL GLAZE 0		1/10W	
L1301	1-408-405-00	INDUCTOR 4.7UH		R1342	1-216-295-91	METAL GLAZE 0		1/10W	
L1302	1-408-403-00	INDUCTOR 3.3UH		R1344	1-216-059-00		K 5%	1/10W	
L1303 L1304	1-408-405-00	INDUCTOR 4.7UH INDUCTOR 4.7UH		R1345	1-216-045-00	METAL GLAZE 680	5%	1/10W	Ī
L1307	1-408-421-00	INDUCTOR 100UH		R1346	1-216-039-00	METAL GLAZE 390		1/10W	
-1000	1 100 110 00			R1347	1-216-055-00	METAL GLAZE 1.8	K 5%	1/10W	
L1308	1-408-418-00	INDUCTOR 560H		R1349	1-216-041-00			1/10%	
	< TRA	ANSISTOR >		R1352	1-216-295-91 1-216-037-00			1/10W 1/10W	
Q1301	9_720_216_22	MDANGTOMOD 2031162 C		D1254	1 216 021 00		. FO.	1 /1 00	,
Q1301 Q1302	8-729-216-22	TRANSISTOR 2SAT162-G		R1354	1-216-031-00 1-216-043-91			1/10W 1/10W	
Q1303	8-729-216-22	TRANSISTOR 2SA1162-G		R1356	1-216-043-91			1/10%	
Q1304	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1357	1-216-033-00			1/10%	
Q1305	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1358	1-216-033-00	METAL GLAZE 220	5%	1/10W	ī
Q1306		TRANSISTOR 2SC2412K-QR		R1359 R1360	1-216-033-00	METAL GLAZE 220	5%	1/10%	ī
Q1307 Q1308		TRANSISTOR 2SA1162-G		R1360	1-249-417-11	CARBON 1K	5%	1/4W	
Q1308 Q1309		TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR		******	**********	*******	******	*****	*****
Q1311		TRANSISTOR 2SC2412K-QR				P1 BOARD, COMPLET			
Q1312	8-729-216-22	TRANSISTOR 2SA1162-G			A 1022 000 A	***********			
Q1313 Q1314		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G			- CAD	ACITOR >			
Q1315	8-729-920-74	TRANSISTOR 2SC2412K-QR					_		
	< RES	SISTOR >		C1401 C1402		CERAMIC CHIP 0.11 CERAMIC CHIP 0.11			25V 25V
			•	C1403	1-163-017-00			10%	50V
R1301	1-216-053-00		/10W	C1404	1-163-037-11			10%	25V
R1302	1-216-059-00	METAL GLAZE 2.7K 5% 1	/10W	C1405	1-163-097-00	CERAMIC CHIP 15PI	,	5%	50V
R1303 R1304	1-216-043-91 1-216-043-91		/10W /10W	C1406	1_162_007_00	CERAMIC CHIP 15PI	,	5%	50V
R1305	1-216-067-00		/10W	C1407		CERAMIC CHIP 1371		34	25V
				C1408		CERAMIC CHIP 0.00		10%	50V
R1306	1-216-073-00		/10W	C1409	1-124-903-11			20%	50V
R1307 R1308	1-216-069-00 1-216-069-00		/10W	C1410	1-163-038-91	CERAMIC CHIP 0.11	F		25V
R1309	1-216-055-00		/10W ./10W	C1412	1-163-038-91	CERAMIC CHIP 0.11	TD.		25V
R1310	1-216-295-91		/10W	C1414		CERAMIC CHIP 1501		5%	50V
				C1416	1-163-129-00			5%	50V
R1311	1-216-073-00		/10W	C1417	1-163-129-00			5%	50V
R1312	1-216-057-00		/10W	C1419	1-164-005-11	CERAMIC CHIP 0.4	MF		257
R1313 R1314	1-216-089-00 1-216-065-00		/10W ./10W	.C1420	1-163-039-01	CERAMIC CHIP 0.1	(F		25V
R1315	1-216-049-00		/10W	C1421		CERAMIC CHIP 0.11			25V 25V
				C1422		CERAMIC CHIP 0.11			25V
R1316	1-216-071-00		/10W	C1423	1-163-038-91	CERAMIC CHIP 0.11	IF		25V
R1317 R1318	1-216-083-00 1-216-051-00		/10W	C1424	1-163-009-11	CERAMIC CHIP 0.00	1MF	10%	50 V
R1318	1-216-051-00		/10W ./10W	C1425	1-163-009-11	CERAMIC CHIP 0.00	11MF	10%	50 v
R1320	1-216-067-00		/10W	C1425		CERAMIC CHIP 0.00		10% 5%	50V
				1				•	

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>	REMARK
C1427 C1428 C1429		ELECT 22MF CERAMIC CHIP 0.1MF CERAMIC CHIP 15PF	20% 5%	50V 25V 50V	FL1405 FL1406 FL1407	1-236-071-11	ENCAPSULATED ENCAPSULATED ENCAPSULATED	COMPONENT	
C1430		CERAMIC CHIP 0.1MF	4.00	25V	FL1408	1-236-071-11	ENCAPSULATED	COMPONENT	
C1431 C1432		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10%	25V 25V		< IC	S		
C1433	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V					
C1434	1-163-038-91	CERAMIC CHIP 0.1MF		25V	IC1401 IC1402	8-759-183-35 8-759-288-85	IC TDA9160A		
C1435		CERAMIC CHIP 0.1MF		25V	IC1403	8-759-248-15	IC SDA9187-22		
C1437 C1438		CERAMIC CHIP 0.056MF CERAMIC CHIP 0.001MF		25V 50V	IC1404		IC SDA9188-32	(PGEG	
C1439	1-163-243-11	CERAMIC CHIP 47PF	5%	50V	IC1406	8-759-183-36	IC TDA8443B		
C1440	1-163-245-11	CERAMIC CHIP 56PF	5%	50 v	IC1410	8-759-295-82	IC L78L08ACZ-	-AP	
C1441		CERAMIC CHIP 0.47MF		25V		< COI	L >		
C1442 C1443		CERAMIC CHIP 0.47MF CERAMIC CHIP 100PF	E0.	25V	71401	1 400 410 00	T1771/2000	F C****	
C1443		CERAMIC CHIP 100PF CERAMIC CHIP 0.47MF	5%	50V 25V	L1401 L1405	1-408-418-00 1-408-407-00		56UH 6.8UH	•
C1445	1-164-005-11	CERAMIC CHIP 0.47MF		25V	L1406	1-408-407-00		6.8UH	
aric	4 464 005 44				L1407	1-414-233-21	INDUCTOR, FEE	RRITE BEAD	
C1446 C1451		CERAMIC CHIP 0.47MF CERAMIC CHIP 680PF	10%	25V 50V	L1408	1-414-233-21	INDUCTOR, FEE	RRITE BEAD	
C1452	1-163-038-91	CERAMIC CHIP 0.1MF	10%	25V		< TRA	NSISTOR >		
C1453		CERAMIC CHIP 0.1MF		25V					
C1454	1-163-038-91	CERAMIC CHIP 0.1MF		25V	Q1401	8-729-920-74	TRANSISTOR 25	SC2412K-QR	
C1455	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q1402 Q1403	8-729-920-74	TRANSISTOR 25	SC2412K-QR SC2412K-QR	
C1456	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q1404	8-729-216-22	TRANSISTOR 25	SA1162-G	
C1457		CERAMIC CHIP 0.47MF		25V	Q1405	8-729-920-74	TRANSISTOR 25	C2412K-QR	
C1458 C1459		CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF		16V 16V	Q1406	8-729-920-74	TRANSISTOR 25	2C2412K_OD	
					Q1407	8-729-216-22	TRANSISTOR 29	SA1162-G	
C1460 C1461		CERAMIC CHIP 0.1MF CERAMIC CHIP 0.47MF		25V	Q1408		TRANSISTOR 25		
C1461		CERAMIC CHIP 0.47MF		25V 25V	Q1409 Q1413	8-729-216-22 8-729-216-22	TRANSISTOR 25		
C1463	1-126-101-11	ELECT 100MF	20%	16V	*				
C1464	1-126-101-11	ELECT 100MF	20%	16V	Q1414	8-729-900-53	TRANSISTOR DY	C114EK	
C1465	1-126-101-11	ELECT 100MF	20%	16V	Q1416 Q1417		TRANSISTOR 25		
C1466	1-126-101-11	ELECT 100MF	20%	16V	Q1418		TRANSISTOR DI		
C1467	1-126-101-11		20%	16V	Q1419	8-729-900-53	TRANSISTOR DY	C114EK	
C1468 C1469		CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF		16V 16V	Q1421	8_720_020_74	TRANSISTOR 25	20241217_00	
02105					Q1422	8-729-920-74	TRANSISTOR 25	SC2412K-QR	
C1471	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	Q1425		TRANSISTOR 28		
C1472 C1473	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10 %	25V 25V	Q1426 Q1430		TRANSISTOR 25		
C1481	1-164-005-11	CERAMIC CHIP 0.1MF		25V 25V	Q1430	0-129-900-55	TRANSISTOR DI	CII4EK	
C1482	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	Q1431	8-729-901-04	TRANSISTOR D	TA114EK	
C1491	1-163-251-11	CERAMIC CHIP 100PF	5%	50V		< RES	SISTOR >		
	< CON	NECTOR >			JR1401		METAL GLAZE		1/10W
CN1514	*1-568-879-11	PIN, CONNECTOR 4P			JR1402	1-216-295-91	METAL GLAZE	0 5%	1/10W
CN1515	*1-564-516-11	PIN, CONNECTOR 4P PLUG, CONNECTOR 13P PIN, CONNECTOR 4P			R1401	1-216-097-00		100K 5%	1/10W
CN1516 CN1538	1-508-8/9-11	CONNECTOR, BOARD TO	מחו חמגרא		R1402 R1403	1-216-073-00 1-216-025-00		10K 5% 100 5%	1/10W 1/10W
0112000	1 3/3 233 21	COMMETON, BOMED TO	DOMED 101		R1404	1-216-025-00		100 5%	1/10W
	< DIO	DE >			R1405	1-216-049-00		1K 5%	1/10W
D1401		DIODE MA3051L			R1406	1-216-051-00		1.2K 5%	1/10W
D1403 D1404		DIODE DAN202K DIODE DA204K			R1407 R1408	1-216-057-00		2.2K 5%	1/10W
D1405		DIODE DA204K			R1410	1-216-041-00 1-216-029-00		470 5% 150 5%	1/10W 1/10W
					R1411	1-216-041-00		470 5%	1/10W
	< ENC	APSULATED FILTER >			R1412	1-216-041-00	ממגנות וגחקו	470 EG	1 /1 00
FL1403	1-236-071-11	ENCAPSULATED COMPONE	NT		R1412	1-216-041-00		470 5% 470 5%	1/10W 1/10W
FL1404	1-236-071-11	ENCAPSULATED COMPONE	INT		R1414	1-216-045-00		680 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	<u> </u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R1415 R1416	1-216-045-00 1-216-049-00	METAL GLAZE METAL GLAZE	680 1K	5% 5%	1/10W 1/10W		*A-1630-303-A	A1 BOARD, CO			
R1417	1-216-033-00	METAL GLAZE	220	5%	1/10W		< CAP	ACITOR >			
R1418	1-216-025-00	METAL GLAZE	100	5%	1/10W						
R1419	1-216-027-00	METAL GLAZE	120	5%	1/10W	C1101	1-126-101-11		100MF	20%	16V
R1421	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1102	1-126-101-11		100MF	20%	16V
R1422	1-216-023-00	METAL GLAZE	82	5%	1/10W	C1103	1-163-038-91				25V
R1424	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1104	1-163-077-00			10%	25V
R1425	1-216-041-00		470	5%	1/10W 1/10W	C1105	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
R1426	1-216-041-00	METAL GLAZE	470	5%	1/10W	C1106	1-163-187-00	CERAMIC CHIP	190pg	5%	50V
R1427	1-216-041-00		470	5%	1/10W	C1107	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R1429	1-216-091-00	METAL GLAZE	56K	5%	1/10W	C1108	1-163-059-00	CERAMIC CHIP	0.01MF		50V
D1420	1 016 060 00			=0	4 44 0	C1109	1-163-033-91				50V
R1430 R1431	1-216-069-00 1-216-073-00		6.8K	5%	1/10W	C1110	1-164-336-11	CERAMIC CHIP	0.33MF		25V
R1434	1-216-043-91	METAL GLAZE	10K 560	5% 5%	1/10W 1/10W	C1111	1-163-009-11	GEDANTO GUED	0.0011677	1 00.	C 077
R1435	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C1111	1-163-009-11	CERAMIC CHIP	0.0033ME	10% 10%	50 V 50V
R1436	1-216-043-91		560	5%	1/10W	C1113	1-124-477-11		47MF	20%	16V
					•	C1114	1-163-038-91			200	25V
R1437	1-216-031-00	METAL GLAZE	180	5%	1/10W	C1115	1-124-477-11		47MF	20%	16V
R1438	1-216-045-00		680	5%	1/10W						
R1439 R1441	1-216-057-00		2.2K	5%	1/10W	C1116	1-106-228-00		0.22MF	10%	100V
R1442	1-216-053-00 1-216-053-00	METAL GLAZE	1.5K 1.5K	5% 5%	1/10W 1/10W	C1117 C1118	1-163-081-00 1-163-113-00			FO.	25V
WIIII	1 210 055-00	METAL GLAZE	1.31	J10	1/104	C1118	1-163-113-00			5% 5%	50V 50V
R1443	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1120	1-163-193-00	CERAMIC CHIP		5%	50V
R1444		METAL GLAZE	470	5%	1/10W					••	•••
R1445	1-216-083-00	METAL GLAZE	27K	5%	1/10W	C1121	1-163-113-00			5%	50V
R1449	1-216-033-00		220	5%	1/10W	C1122	1-163-081-00				25V
R1450	1-216-033-00	METAL GLAZE	220	5%	1/10W	C1123	1-106-228-00		0.22MF	10%	100V
R1453	1-216-025-00	METAL GLAZE	100	5%	1/10W	C1124 C1125	1-124-477-11 1-124-477-11		47MF 47MF	20% 20%	16V
R1454	1-216-025-00	METAL GLAZE	100	5%	1/10W	CIIZJ	1-124-4//-11	BUBCI	4/MF	20%	16V
R1455	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C1126	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
R1456	1-216-081-00	METAL GLAZE	22K	5%	1/10W	C1127	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1457	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1128	1-124-477-11		47MF	20%	16V
R1458	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	C1129 C1130	1-163-038-91			1.00.	25V
R1462	1-216-073-00	METAL GLAZE	10K	5%	1/10W	CTT3A	1-163-205-00	CERAMIC CHIP	U.UUIMr	10%	50V
R1464	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C1131	1-163-059-00	CERAMIC CHIP	0.01MF		50V
R1465	1-216-093-00	METAL GLAZE	68K	5%	1/10W	C1132	1-163-038-91				25V
R1466	1-216-295-91	METAL GLAZE	0	5%	1/10W	C1133	1-124-907-11	ELECT	10MF	20%	50V
R1468	1 216 040 00	MEMAI CIATE	122	F0.	1 /1 0***	C1134	1-163-009-11			10%	50V
R1469	1-216-049-00 1-216-049-00	METAL GLAZE	1K 1K	5% 5%	1/10W 1/10W	C1135	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R1471	1-216-037-00		330	5%	1/10W 1/10W	C1136	1-163-117-00	CPDAMIC CUID	10000	5%	50V
R1481	1-216-089-00		47K	5%	1/10W	C1137	1-163-038-91			20	25V
R1483	1-216-079-00		18K	5%	1/10W	C1138	1-163-105-00			5%	50V
54464						C1139	1-163-105-00			5%	50 v
R1484 R1485	1-216-081-00		22K	5% F%	1/10W	C1140	1-163-181-00	CERAMIC CHIP	100PF	5%	50V
R1486	1-216-041-00 1-216-033-00		470	5%	1/10W	01141	1 162 005 00	00011170 00TD	0.0011		
R1487	1-216-033-00		220 220	5% 5%	1/10W 1/10W	C1141 C1142	1-163-205-00 1-163-019-00			5%	50V 50V
R1493	1-216-075-00		12K	5%	1/10W	C1142	1-163-013-00			10%	50V 50V
					_, _, _,	C1144	1-163-121-00			5%	50V
R1494	1-216-025-00	METAL GLAZE	100	5%	1/10W	C1145	1-163-121-00			5%	50V
R1495	1-216-053-00	METAL GLAZE	1.5K		1/10W	0111	4 444 400 00		A 41		
R1496 R1497	1-216-065-00 1-216-053-00		4.7K 1.5K		1/10W 1/10W	C1146 C1147	1-163-038-91			200-	25V
R1498		METAL GLAZE	1.5K		1/10W 1/10W	C1147	1-124-477-11 1-164-161-11		47MF 0 0022MF	20% 10%	16V 50V
	000 00		71	5.0	-, -,	C1140	1-104-101-11		0.0022MF 47MF	20%	16V
R1499	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	C1150	1-163-038-91				25V
											-
	< CRY	STAL >				C1151	1-163-038-91				25V
X1401	1-567-505-11	OGCTITATION C	DVCMAT			C1152 C1153	1-124-477-11		47MF	20%	16V.
X1402	1-567-504-11	OSCILLATOR, C	RYSTAL			C1153	1-163-087-00 1-163-038-91			0.25PF	25 V
X1403	1-760-551-21	VIBRATOR, CER	AMIC			C1155	1-103-038-91		47MF	20%	25V 16V
		.,	-					·			
						C1156	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	V			REMARK
				1			-			
C1157	1-163-009-11	CERAMIC CHIP 0.001MF 1 CERAMIC CHIP 0.1MF	L0% 50V	R1112	1-216-051-00		1.2K		1/10W	
C1158	1-163-038-91	CERAMIC CHIP U.1MF	25 V	R1113 R1114	1-216-001-00 1-216-105-91		10	5%	1/10W	
	< FII	TER >		R1114 R1115	1-216-103-91		220K 1M	5% 5%	1/10W 1/10W	
	, ,			R1116	1-216-049-00		1K	5%	1/10W	
BP1101	1-239-047-11	TER > FILTER, BAND PASS								
CF1101	1 400 307 00	MD1D CDD1WTG // FIGUR		R1117	1-216-097-00		100K	5%	1/10W	
CF1101 CF1102	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	÷	R1118 R1119	1-216-097-00		100K	5%	1/10W	
CF1102	1-404-124-00	TRAP, CERAMIC (5.3MHZ)		R1119	1-216-073-00 1-216-232-00		10K 27K	5% 5%	1/10W 1/8W	
	< CON	TRAP, CERAMIC (6.5MHZ) TRAP, CERAMIC (5.5MHZ) NECTOR >		R1121	1-216-081-00		22K	5%	1/10W	1
								••	-,	
CN0201	1-695-300-11	CONNECTOR, BOARD TO BOARD	20P	R1122	1-216-158-00		22	5%	1/8W	
	< DIC	ine .		R1123	1-216-158-00		22	5%	1/8W	
•	< D10	DDE >		R1124 R1125	1-216-089-00 1-216-097-00		47K 100K	5% 5%	1/10W 1/10W	
D1101	8-719-914-44	DDE > DIODE DAP202K DIODE 1SV217 DIODE 1SV214 RRITE BEAD >		R1126	1-216-218-00		6.8K		1/8W	
D1102		DIODE 1SV217						••	-, •	
D1103	8-719-820-71	DIODE 1SV214		R1127	1-216-097-00			5%	1/10W	
	. 1191	DIME DELD		R1128	1-216-089-00		47K	5%	1/10W	
		RITE BEAD >		R1129 R1130	1-216-089-00 1-216-246-91		47K	5%	1/10W	
FB1101	1-410-396-41	FERRITE BEAD INDUCTOR 0 45	HTD	R1131	1-216-218-00		100K 6.8K	ე% 5%	1/8W 1/8W	
FB1102	1-410-396-41	FERRITE BEAD INDUCTOR 0.45	5UH	WIIJI	1-210-210-00	METAD GDAZE	0.01	J*0	1/011	
FB1103	1-410-396-41	FERRITE BEAD INDUCTOR 0.45	5UH	R1132	1-216-097-00	METAL GLAZE	100K	5%	1/10W	ľ
FB1104	1-410-396-41	FERRITE BEAD INDUCTOR 0.45	5UH	R1133	1-216-089-00		47K	5%	1/10W	
FB1105	1-410-396-41	FERRITE BEAD INDUCTOR 0.45	OUH	R1134	1-216-212-00		3.9K		1/8W	
FB1107	1-410-396-41	FERRITE READ INDUCTOR 0 45	TTH .	R1135 R1136	1-216-081-00 1-216-081-00		22K 22K	5% 5%	1/10W 1/10W	
	- 120 000 12	THE PERMITTER STATE OF	7011	MIIJU	1-210-001-00	MBIAU GUAGE	ZZK	J*0	1/108	ľ
	< IC	>		R1137	1-216-095-00	METAL GLAZE	82K	5%	1/10W	ľ
701101				R1138	1-216-097-00		100K		1/10W	
IC1101 IC1102	8-759-511-88 8-759-073-17	IC TDA8732		R1139	1-216-005-00		15	5%	1/10W	
101102	0-/59-0/5-1/	IC SAA/262P		R1140 R1141	1-216-061-00 1-216-061-00		3.3K 3.3K	5% 5%	1/10W 1/10W	
	< COI	IL >		MIIII	1-210-001-00	MEIAL GLAZE	J.JK	3%	1/104	l
				R1142	1-216-033-00	METAL GLAZE	220	5%	1/10W	ī
L1101	1-408-405-00	INDUCTOR 4.7UH		R1143	1-216-049-00		1K	5%	1/10W	
L1102	1-408-405-00	INDUCTOR 4.7UH		R1144	1-216-049-00		1K	5%	1/10W	
L1103 L1104	1-410-119-11 1-410-119-11	INDUCTOR 1MMH INDUCTOR 1MMH		R1145 R1146	1-216-001-00 1-216-049-00		10 1 K	5% 5 %	1/10W	
L1105	1-408-407-00	INDUCTOR 6.8UH		KTT#0	1-210-049-00	METAL GLAZE	TV	24	1/10W	ļ
				R1147	1-216-045-00	METAL GLAZE	680	5%	1/10W	1
	< TRA	INSISTOR >		R1148	1-216-049-00		1K	5%	1/10W	
Q1101	0 720 020 74	TRANSISTOR 2SC2412K-QR		R1149	1-216-001-00		10	5%	1/10W	
Q1101 Q1102	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1150 R1151	1-216-045-00 1-216-049-00		680 18	5%	1/10W	
Q1103	8-729-920-74	TRANSISTOR 2SC2412K-OR		WIIII	1-210-045-00	MEIAU GUAZE	1K	5%	1/10W	ľ
Q1104		TRANSISTOR 2SC2412K-QR		R1152	1-216-049-00	METAL GLAZE	1K	5%	1/10W	1
Q1105	8-729-920-74	TRANSISTOR 2SC2412K-QR		R1153	1-216-049-00		1K	5%	1/10W	1
01106	0 700 000 74	MDANGTOMOD OGGO440W AD		R1154	1-216-041-00	METAL GLAZE	470	5%	1/10W	
Q1106 Q1107		TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR			, Ant	STAL >				
Q1108	8-729-920-74	TRANSISTOR 2SC2412K-QR			< CR1	STAL >				
				X1101	1-579-689-21	VIBRATOR, CRY	STAL			
	< RES	SISTOR >		X1102		VIBRATOR, CRY				
JR1102	1-216-296-00	MDMX1 C137D 0 EQ	1/8W		*********			****	*****	
JR1102	1-216-296-00		1/8W							
JR1104	1-216-295-91	The state of the s	1/10W		*A-1632-207-A	A BOARD, COMP	LETE			

R1101	1-216-188-00		1/8W							
R1103 R1104	1-216-198-91 1-216-041-00		1/8W		4-201-023-11	SPACER, INSUL	ATING			
R1104 R1105	1-216-041-00		1/10W 1/10W		~ (°X1	PACITOR >				
R1105	1-216-036-00		1/10W		< CAL	WCIION >				
				C001	1-130-777-00	FILM	0.1MF		5%	63 V
R1107	1-216-042-00		1/10W	C071	1-124-041-00		220MF		20%	16V
R1108 R1109	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W	C072	1-124-120-11		220MF		20%	16V
R1109 R1110	1-216-202-00 1-216-196-00		1/8W 1/8W	C073 C074		CERAMIC CHIP			5% 10%	50 V 50 V
R1111	1-216-041-00		1/10W	C0/4	T-102-00T-II	CEMMIC CHIP	44VPF		±V70	30 V
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REF.NO.	PART NO.	DESCRIPTION	REMAR	K REF.NO.	PART NO.	DESCRIPTION		REMARK
C101 C102 C103 C104 C105	1-126-101-11 1-126-103-11 1-163-031-11 1-124-910-11 1-124-916-11	ELECT 470MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 16V 20% 16V 50V 20% 50V 20% 50V	C304 C305 C306 C307 C308	1-164-004-11 1-163-117-00 1-163-117-00 1-163-017-00 1-163-809-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.047MF	10% 5% 5% 10%	25V 50V 50V 50V 25V
C106 C120 C201 C202 C203	1-124-927-11 1-163-031-11 1-130-489-00 1-130-489-00 1-164-005-11	ELECT 4.7MF CERAMIC CHIP 0.01MF FILM 0.033MF FILM 0.033MF CERAMIC CHIP 0.47MF	20% 50V 50V 5% 50V 5% 50V 25V	C309 C310 C311 C312 C313	1-164-004-11 1-163-038-91 1-163-077-00 1-124-910-11 1-163-077-91	CERAMIC CHIP 0.1MF ELECT 47MF	10% 10% 20%	25V 25V 25V 50V 50V
C204 C205 C206 C207 C208	1-124-907-11	CERAMIC CHIP 0.47MF ELECT 10MF CERAMIC CHIP 0.0022MF FILM 0.0018MF CERAMIC CHIP 0.47MF	25V 20% 50V 10% 50V 2% 100V 25V	C314 C315 C316 C317 C318	1-163-038-91 1-124-910-11 1-163-077-91 1-163-103-00 1-163-103-00		20% 5% 5%	25V 50V 50V 50V 50V
C209 C210 C212 C213 C214	1-164-005-11 1-164-005-11 1-124-927-11 1-163-023-00 1-163-023-00	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF ELECT 4.7MF CERAMIC CHIP 0.015MF CERAMIC CHIP 0.015MF	25V 25V 20% 50V 10% 50V 10% 50V	C319 C320 C321 C322 C323	1-163-038-91 1-124-910-11 1-163-038-91 1-124-916-11 1-163-135-00	ELECT 47MF CERAMIC CHIP 0.1MF	20% 20% 5%	25V 50V 25V 50V 50V
C215 C216 C217 C218 C219	1-163-809-11 1-163-809-11 1-124-925-11 1-124-925-11 1-163-011-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF ELECT 2.2MF ELECT 2.2MF CERAMIC CHIP 0.0015MF	10% 25V 10% 25V 20% 50V 20% 50V 10% 50V	C324 C325 C333 C341 C342	1-124-910-11 1-216-295-91 1-163-213-00 1-163-077-00 1-163-077-00		20% 5 1/10W 5% 10% 10%	50V 50V 25V 25V
C220 C221 C222 C223 C224	1-163-011-11 1-124-925-11 1-124-925-11 1-136-177-00 1-136-177-00	CERAMIC CHIP 0.0015MF ELECT 2.2MF ELECT 2.2MF FILM 1MF FILM 1MF	10% 50V 20% 50V 20% 50V 5% 50V 5% 50V	C343 C344 C345 C347 C348	1-164-004-11 1-162-638-11 1-162-638-11 1-162-638-11 1-162-638-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF	10%	25V 16V 16V 16V 16V
C225 C226 C227 C228 C229	1-164-182-11 1-163-007-11 1-124-907-11 1-124-907-11 1-126-101-11	CERAMIC CHIP 0.0033MF CERAMIC CHIP 680PF ELECT 10MF ELECT 100MF ELECT 100MF	10% 50V 10% 50V 20% 50V 20% 50V 20% 16V	C349 C350 C351 C352 C353	1-162-638-11 1-124-907-11 1-126-101-11 1-163-031-11 1-162-638-11	ELECT 10MF ELECT 100MF CERAMIC CHIP 0.01MF	20% 20%	16V 50V 16V 50V 16V
C230 C231 C232 C233 C234	1-126-101-11 1-164-346-11 1-163-009-11 1-163-009-11 1-163-017-00	ELECT 100MF CERAMIC CHIP 1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.0047MF	20% 16V 16V 10% 50V 10% 50V 10% 50V	C354 C355 C356 C357 C358	1-164-299-11 1-164-299-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.22MF	10% 10% 10%	16V 16V 25V 25V 25V
C235 C236 C237 C238 C239	1-130-772-00 1-124-618-11 1-124-618-11 1-163-017-00 1-130-772-00	ELECT 2200MF ELECT 2200MF CERAMIC CHIP 0.0047MF	5% 63V 20% 35V 20% 35V 10% 50V 5% 63V	C359 C361 C362 C363 C365	1-124-907-11 1-163-101-00 1-130-772-00 1-124-907-11 1-124-120-11	CERAMIC CHIP 22PF FILM 0.22MF ELECT 10MF	20% 5% 5% 20% 20%	50V 50V 63V 50V 16V
C240 C241 C242 C244 C248	1-124-916-11 1-124-916-11 1-124-903-11 1-164-232-11 1-163-121-00	ELECT 22MF ELECT 22MF ELECT 1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 150PF	20% 50V 20% 50V 20% 50V 10% 50V 5% 50V	C366 C401 C402 C403 C411	1-124-917-11 1-164-005-11	CERAMIC CHIP 0.47MF	20% 20%	50V 16V 50V 16V 25V
C249 C250 C251 C254 C255	1-124-902-00 1-163-129-00 1-126-320-11 1-163-133-00 1-163-133-00	ELECT 0.47MF CERAMIC CHIP 330PF ELECT 10MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	20% 50V 5% 50V 20% 16V 5% 50V 5% 50V	C412 C421 C422 C423 C424	1-124-910-11	ELECT 47MF MYLAR 0.01MF	20% 20% 10% 5%	25V 50V 50V 400V 50V
C256 C257 C301 C302 C303	1-163-133-00 1-163-133-00 1-163-038-91 1-163-038-91 1-164-337-11	CERAMIC CHIP 470PF CERAMIC CHIP 470PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 2.2MF	5% 50V 5% 50V 25V 25V 16V	C425 C426 C427 C428 C429		CERAMIC CHIP 1MF CERAMIC CHIP 1MF	5% 20% 20%	50V 50V 16V 16V 16V



REF.NO.	PART NO.	DESCRIPTIO	N	l	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMA
C501 C502	1-124-907-11 1-124-902-00	ELECT	10MF 0.47MF	20% 20%	50V		< FIL		
C503 C504 C505	1-130-487-00 1-163-031-11 1-136-598-11	CERAMIC CHIP	0.022MF 0.01MF 3MF	5% 5%	50V 50V 200V	CF581		OSCILALTOR, CERAMIC NECTOR >	
C507	1-108-700-11		0.047MF	10%	200V	CN0001		PIN, CONNECTOR 5P	
C508 C509	1-102-973-00 1-102-030-00		100PF 330PF	5% 10%	50 V 50 0V	CN0101 CN0103	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P CONNECTOR, BOARD TO BOARD 20P	
C510 C514	1-136-565-11 1-163-031-11	FILM	0.015MF	3%	1.4KV 50V	CN0103 CN0104 CN0105	*1-568-880-51	PIN, CONNECTOR 5P PIN, CONNECTOR 4P	
C515 C517	1-163-031-11 1-124-907-11		0.01MF 10MF	200	50V	CN0108		PLUG, CONNECTOR 10P	
C518	1-163-031-11	CERAMIC CHIP		20%	50V 50V	CN0109 CN0110		CONNECTOR, BOARD TO BOARD 50P PIN, CONNECTOR 7P	
C520 C522	1-124-916-11 1-123-024-21		22MF 33MF	20%	50V 160V	CN0113 CN0114		CONNECTOR, BOARD TO BOARD 40P PIN, CONNECTOR 4P	
C523	1-108-700-11		0.047MF	10%	200V	CN0115	*1-564-516-11	PLUG, CONNECTOR 13P	
C524 C525	1-124-477-11 1-163-031-11		47MF 0.01MF	20%	16V 50V	CN0116 CN0119		PIN, CONNECTOR 4P PIN, CONNECTOR 3P	
C526	1-163-031-11	CERAMIC CHIP	0.01MF		50V	CN0120	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
C528	1-124-662-11		220MF	20%	50V	CN0121		PIN, CONNECTOR (PC BOARD) 5P	
C529 C530	1-126-320-11 1-164-299-11		10MF 0.22MF	20% 10%	16V 25V	CN0122 CN0123		PIN, CONNECTOR (PC BOARD) 5P PIN, CONNECTOR 5P	
C531	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V	CN0124	*1-568-880-51	PIN, CONNECTOR 5P	
C532 C536	1-163-125-00 1-124-662-11		220PF 220MF	5% 20%	50V 50V	CN0125 CN0126		PIN, CONNECTOR 5P	
C537								PLUG, CONNECTOR 8P	
C537	1-124-662-11 1-124-907-11		220MF 10MF	20% 20%	50V 50V	CN0127 CN0128		PLUG, CONNECTOR 9P PIN, CONNECTOR 7P	
C542	1-163-031-11	CERAMIC CHIP	0.01MF		50V	CN0129	1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C543 C544	1-163-031-11 1-163-031-11				50V 50V	CN0131 CN0132		PIN, CONNECTOR 4P PIN, CONNECTOR (PC BOARD) 8P	
C545	1-163-031-11				50V	CN0133		PLUG, CONNECTOR 10P	
C557 C569	1-102-030-00 1-123-935-00		330PF 33MF	10% 20%	500V 160V	CN0134 CN0135		PIN, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 2P	
C574	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	CN0161	1-695-915-11	TAB (CONTACT)	
C575	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V		< DIO	DE >	
C576	1-163-075-00			10%	25V				
C577 C578	1-163-093-00 1-163-031-11			5%	50V 50V	D068 D069		DIODE DAP202K DIODE DAP202K	
C579	1-124-910-11	ELECT	47MF	20%	50V	D071		DIODE RD5.6ESB2	
C580	1-163-031-11	CERAMIC CHIP	0.01MF		50V	D073		DIODE RD5.6ESB2	
C581	1-163-031-11	CERAMIC CHIP	0.01MF		50V	D075	8-/19-914-43	DIODE DAN202K	
C582	1-124-916-11	ELECT	22MF	20%	50V	D077		DIODE DAN202K	
C583 C585		CERAMIC CHIP		5% 10%	50V 50V	D078 D079		DIODE RD5.6ESB2 DIODE RD5.6ESB2	
C586		CERAMIC CHIP		10%	50V	D101		DIODE MTZJ-33C	
2500				•••		D206	8-719-914-43		
C587 C588	1-124-903-11	ELECT CERAMIC CHIP	1MF	20%	50V 16V	D207	8_710_021_80	DIODE MTZJ-13C	
C589	1-126-103-11	ELECT	470MF	20%	16V	D208		DIODE DAN202K	
C590	1-124-916-11		22MF	20%	50V	D209	8-719-901-33		
C591	1-124-925-11	RTECL	2.2MF	20%	50V	D210 D211	8-719-901-33 8-719-901-33		
C592		CERAMIC CHIP		10%	50V				
C593 C595		CERAMIC CHIP		10% 5%	50V 50V	D212 D213		DIODE 1SS133 DIODE DAN202K	
C599	1-164-232-11	CERAMIC CHIP		10%	50V	D301		DIODE DAN202K	
C680	1-128-526-11	ELECT	100MF	20%	25V	D304	8-719-109-89	DIODE RD5.6ESB2	
C682	1-126-101-11	ELECT	100MF	20%	16V	D305	8-719-914-43	DIODE DAN202K	
C684	1-126-101-11	ELECT	100MF	20%	16V	D306		DIODE DAN202K	
C685	1-124-122-11		100MF	20%	50V	D307		DIODE DAN202K	
C686 C687	1-124-916-11 1-124-916-11		22MF 22MF	20% 20%	50 V 50 V	D308 D311		DIODE 1SS226 DIODE 1SS226	
	PAV AA					D381		DIODE RD7.5ESB2	
					1				



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D401 D403 D405 D406 D407	8-719-110-14 8-719-110-14 8-719-110-14	DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3 DIODE RD9.1ESB3		L502 L505 L507 L575 L610		COIL WITH CORE (HWC) COIL WITH CORE (HWC) INDUCTOR 1UH	
D501 D502 D503		DIODE ERC38-06 DIODE ERC38-06		L611	1-412-539-41		
D504 D505		DIODE RD5.6ESB2		0071	8-729-901-05	NSISTOR > TRANSISTOR DTA124EK	
D506 D508 D510 D512	8-719-914-43 8-719-901-33	DIODE DAN202K DIODE DAN202K DIODE 1SS133		Q101 Q102 Q103 Q104	8-729-901-00 8-729-900-53 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR DTC124EK TRANSISTOR DTC114EK TRANSISTOR 2SA1162-G	
D513 D514 D522 D523	8-719-914-43 8-719-914-43 8-719-914-43	DIODE DAN202K DIODE DAN202K DIODE DAN202K DIODE DAN202K		Q105 Q201 Q202 Q203 Q204	8-729-920-74 8-729-920-74	TRANSISTOR DTC114EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
D524 D525	8-719-914-43	DIODE DAN202K DIODE DAN202K		Q205 Q206	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
D526 D555 D571 D615 D616	8-719-914-43 8-719-800-76 8-719-921-88	DIODE DAN202K DIODE DAN202K DIODE 1SS226 DIODE MTZJ-13B DIODE MTZJ-13B		Q207 Q209 Q210	8-729-920-74 8-729 - 920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTC124EK	
	< IC	>		Q302 Q303	8-729-216-22 8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC001 IC005 IC072 IC201 IC202	8-752-037-04 8-752-058-71 8-759-184-27 8-759-266-64 8-759-502-21	IC CXA1656S IC ST24C16CB1 IC TDA6612-5		Q304 Q305 Q306 Q308	8-729-901-01 8-729-216-22 8-729-216-22	TRANSISTOR DTC114EK TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G	
IC251	8-759-072-99	IC TDA2052 HOLDER, IC ; IC251		Q309 Q310 Q311	8-729-901-00	TRANSISTOR 2SC2413KQ TRANSISTOR DTC124EK TRANSISTOR DTA144EK	
IC261 IC301	8-759-072-99 4-200-001-11	IC TDA2052 HOLDER, IC ; IC261 IC TDA9145/N2B		Q312 Q401 Q402 Q403	8-729-920-74 8-729-920-74	TRANSISTOR DTC114EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
IC302 IC304 IC401	8-752-056-54 8-752-068-46	IC TDA4661/V2 IC CXA1587S IC CXA1855S		Q404 Q501		TRANSISTOR 2SC2412K-QR	
IC402 IC502	8-759-073-00 8-752-057-18	IC CXA1315P		Q502 Q503	4-382-854-11 8-729-216-22	TRANSISTOR 2SC4927-01 SCREW (M3X10), P, SW (+) TRANSISTOR 2SA1162-G	; Q502
IC681 IC682	8-759-279-71	IC TA7812S SCREW (M3X10), P, SW (+); IC IC UPD6600AGS-B50 SCREW (M3X10), P, SW (+); IC		Q504 Q505 Q506	8-729-201-32	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1013-0 TRANSISTOR 2SA1013-0	
IC683	8-759-701-59	IC NJM78M09FA SPRING, IC ; IC683		Q507 Q508	8-729-304-92 8-729-204-16	TRANSISTOR 2SB649A-C TRANSISTOR 2SA1301-0	•
	< IF	BLOCK >		Q509	4-382-854-11	SPACER, MICA; Q508 SCREW (M3X10), P, SW (+) TRANSISTOR 2SC2412K-QR) ; Q508
IFB101		IF BLOCK (IFH-389FX)		Q510	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L101	< COI 1-412-546-41			Q511 Q515 Q516	8-729-216-22	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G	
L102 L201 L306 L307	1-412-340-41 1-408-413-00 1-410-067-21 1-408-405-00 1-408-405-00	INDUCTOR 22UH INDUCTOR 4.7MMH INDUCTOR 4.7UH		Q516 Q517 Q518 Q519	8-729-216-22 8-729-920-74	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR	
L308 L501	1-408-417-00			Q520 Q521 Q522	8-729-920-74 8-729-920-74	TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR	



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N ·		REMA
Q524 Q525 Q581 Q582	8-729-920-74 8-729-901-00 8-729-920-74 8-729-216-22	TRANSISTOR DTC12	4EK 12K-QR		JR62 JR63 JR64	1-216-295-91 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/10W 1/8W 1/8W
Q599 Q611	8-729-920-74 8-729-900-53		12K-QR		JR65 JR66	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W
Anti		IRANSISION DICII	400		JR67 JR68 JR69	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W
	, KEL	JIDION >			UNUS	1-210-290-00	MEIAL GLAZE	U	24	1/0#
JR1	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR70	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR2 JR3	1-216-296-00 1-216-295-91		5% 5%	1/8W 1/10W	JR71 JR72	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5%	1/8W
JR4	1-216-296-00		5%	1/8W	JR74	1-216-296-00	METAL GLAZE	0	5% 5%	1/8W 1/10W
JR5	1-216-296-00		5%	1/8W	JR75	1-216-296-00	METAL GLAZE	Ö	5%	1/8W
JR6	1-216-296-00		5%	1/8W	JR76	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR7	1-216-295-91		5%	1/10W	JR77	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR8 JR9	1-216-296-00 1-216-295-91		5% 5%	1/8W 1/10W	JR78 JR80	1-216-296-00 1-216-295-91	METAL GLAZE	0	5%	1/8W
JR10	1-216-295-91		5%	1/10W	JR81	1-216-296-00	METAL GLAZE METAL GLAZE	0 0	5% 5%	1/10W 1/8W
JR11	1-216-296-00	METAL GLAZE 0	5%	1/8W	JR82	1-216-296-00	METAL GLAZE	0	5%	1/8W
JR12	1-216-296-00		5%	1/8W	JR83	1-216-296-00	METAL GLAZE	Ŏ	5%	1/8W
JR13	1-216-296-00		5%	1/8W	JR87	1-216-295-91		0	5%	1/10W
JR14	1-216-296-00		5%	1/8W	JR100	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR15	1-216-296-00		5%	1/8W	JR103	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR16	1-216-296-00		5%	1/8W	JR110	1-216-295-91		0	5%	1/10W
JR17 JR18	1-216-295-91 1-216-295-91		5% 5%	1/10W 1/10W	JR130	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR19	1-216-295-91		5%	1/10W 1/10W	JR234 JR403	1-216-295-91 1-216-295-91	METAL GLAZE METAL GLAZE	0	5% 5%	1/10W 1/10W
JR21	1-216-296-00		- 5%	1/8W				•		
JR22	1-216-295-91	METAL GLAZE 0	5%	1/10W	R001 R071	1-216-341-11 1-216-041-00		0.22	5%	1W F
JR23	1-216-295-91		5%	1/10W	R072	1-216-041-00		470 220	5% 5%	1/10W 1/10W
JR24	1-216-295-91		5%	1/10W	R073	1-216-033-00		220	5%	1/10W
JR25	1-216-296-00		5%	1/8W	R074	1-216-198-91		1K	5%	1/8W
JR26	1-216-295-91	METAL GLAZE 0	5%	1/10W	R076	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
JR27	1-216-295-91	METAL GLAZE 0	5%	1/10W	R077	1-216-025-00		100	5%	1/10W
JR28	1-216-295-91		5%	1/10W	R100	1-216-097-00	METAL GLAZE	100K	5%	1/10W
JR29	1-216-295-91		5%	1/10W	R101	1-216-025-00	METAL GLAZE	100	5%	1/10W
JR30	1-216-295-91		5%	1/10W	R102	1-216-049-00	METAL GLAZE	1K	5%	1/10W
JR31	1-216-295-91		5%	1/10W	R104	1-216-073-00		10K	5%	1/10W
JR32		METAL GLAZE 0	5%	1/10W	R105	1-216-073-00		10K	5%	1/10W
JR33	1-216-295-91		5%	1/10W	R106	1-216-073-00	METAL GLAZE	10K	5%	1/10W
JR34 JR35	1-216-296-00 1-216-296-00		5% 5%	1/8W 1/8W	R107 R108	1-216-061-00 1-216-230-00		3.3K		1/10W
JR36	1-216-295-91		5%	1/10W	KIUO	1-216-230-00	METAL GLAZE	22K	5%	1/8W
	4 444 444				R115	1-216-210-00		3.3K		1/8W
JR37	1-216-296-00		5% 5%	1/8W	R201	1-208-784-11			0.50%	
JR38 JR39	1-216-296-00 1-216-295-91		5% 5%	1/8W 1/10W	R202 R203	1-208-784-11				1/10W
JR40	1-216-295-91		5%	1/10W 1/10W	R203	1-216-067-00 1-216-091-00		5.6K 56K	5% 5%	1/10W 1/10W
JR41	1-216-296-00		5%	1/8W						
JR42	1-216-296-00	METAL GLAZE 0	5%	1/8W	R205 R206	1-216-295-91 1-216-295-91		0	5% 5%	1/10W
JR43	1-216-296-00		5%	1/8W	R206	1-216-295-91		0 10K	5% 5%	1/10W 1/10W
JR44	1-216-296-00		5%	1/8W	R208	1-216-073-00		10K	5%	1/10W
JR47	1-216-296-00		5%	1/8W	R209	1-249-377-11		0.47	5%	1/4W F
JR48	1-216-295-91	METAL GLAZE 0	5%	1/10W	R210	1-247-739-11	CARBON	100	5%	1/2W
JR54	1-216-296-00	METAL GLAZE 0	5%	1/8W	R211	1-247-739-11		100	5%	1/2W
JR55	1-216-296-00		5%	1/8W	R212	1-216-049-00	METAL GLAZE	1K	5%	1/10W
JR56	1-216-296-00		5%	1/8W	R213	1-216-073-00		10K	5%	1/10W
JR57 JR58	1-216-295-91 1-216-295-91		5% 5%	1/10W	R214	1-216-049-00	METAL GLAZE	1K	5%	1/10W
0770	1-410-473-31	MEINI GUNDE V	5%	1/10W	R215	1-216-073-00	Μ ጀጥል፤, ር፤.ኔላም	10K	5%	1/10W
JR60 JR61		METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/8W 1/8W	R216 R217	1-216-049-00 1-216-043-91	METAL GLAZE	1K 560	5% 5%	1/10W 1/10W 1/10W
			J.0	-, •,,	144	T 0 TO 047-3T	THINH GUNDE	200	J 10	1/1011



REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK	REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>		REMARK
R218 R221	1-216-081-00 1-212-849-00	METAL GLAZE FUSIBLE		5% 5%	1/10W 1/4W F	R321 R322	1-216-039-00 1-216-041-00	METAL GLAZE METAL GLAZE	390 470	5% 5%	1/10W 1/10W
R222 R223 R224 R225 R226	1-216-049-00 1-216-043-91 1-216-081-00 1-212-849-00 1-216-039-00	METAL GLAZE FUSIBLE	560 22K 4.7	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W F 1/10W	R324 R325 R326 R328 R329	1-216-049-00 1-216-047-00 1-216-073-00 1-216-029-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 820 10K 150 82	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R227 R228 R229 R230 R231	1-216-081-00 1-216-081-00 1-216-039-00 1-216-097-00 1-216-097-00	METAL GLAZE	22K 390 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R330 R331 R333 R334 R335	1-216-053-00 1-216-097-00 1-216-182-00 1-216-182-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 100K 220 220 100	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/10W
R232 R233 R234 R235 R236	1-216-081-00 1-216-071-00 1-216-069-00 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE	8.2K 6.8K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R336 R337 R338 R339 R340	1-216-295-91 1-216-295-91 1-216-295-91 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R237 R238 R239 R241 R242	1-216-025-00 1-216-025-00 1-216-295-91 1-216-065-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 0 4.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R341 R342 R343 R344 R345	1-216-025-00 1-216-033-00 1-216-022-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 220 75 75 75	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R244 R245 R246 R247 R248	1-216-069-00 1-216-089-00 1-216-097-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	47K 100K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R346 R347 R351 R352 R354	1-216-022-00 1-216-083-00 1-216-073-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 27K 10K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R249 R250 R251 R252 R253	1-216-045-00 1-216-095-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R355 R356 R357 R358 R359	1-216-033-00 1-216-033-00 1-216-041-00 1-216-031-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 470 180 220	5% 5% 5% 5% 5%	1/10w 1/10w 1/10w 1/10w 1/10w
R254 R255 R256 R257 R258	1-216-252-00 1-216-252-00 1-216-182-00 1-216-182-00 1-216-089-00			5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/10W	R360 R361 R362 R365 R366	1-216-033-00 1-216-033-00 1-216-077-00 1-216-073-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 15K 10K 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R259 R260 R300 R301 R302	1-216-049-00 1-216-049-00 1-216-009-00 1-216-041-00 1-216-190-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 22 470 470	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	R367 R368 R369 R370 R371	1-216-296-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	0 220 220 220 220	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
R303 R304 R305 R306 R307	1-216-174-00 1-216-174-00 1-216-035-00 1-216-035-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 270 270 12K	5% 5% 5% 5% 5%	1/8W 1/8W 1/10W 1/10W 1/10W	R373 R374 R376 R377 R378	1-216-017-00 1-216-041-00 1-216-065-00 1-216-051-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	47 470 4.7K 1.2K 2.2K	5%	1/10W 1/10W 1/10W 1/10W 1/10W
R308 R309 R310 R311 R312	1-216-121-00 1-216-001-00 1-216-001-00 1-216-065-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R379 R380 R381 R382 R383	1-216-057-00 1-216-057-00 1-216-164-00 1-216-164-00 1-216-164-00	METAL GLAZE	2.2K 2.2K 39 39 39		1/10W 1/10W 1/8W 1/8W 1/8W
R313 R314 R315 R316 R317	1-216-033-00 1-216-033-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R401 R402 R403 R404 R405	1-216-171-00 1-216-158-00 1-216-025-00 1-216-158-00 1-216-025-00	METAL GLAZE	75 22 100 22 100	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W 1/10W
R318 R319 R320	1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 470 100	5% 5% 5%	1/10W 1/10W 1/8W	R406 R407 R408	1-216-158-00 1-216-025-00 1-216-093-00	METAL GLAZE	22 100 68K	5% 5% 5%	1/8W 1/10W 1/10W

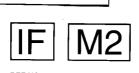


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	REF.NO.	PART NO.	DESCRIPTIO	<u>DN</u>	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>	REMARI
	R410 R411	1-216-067-00 1-216-067-00	METAL GLAZE METAL GLAZE	5.6K 5% 5.6K 5%	1/10W 1/10W	R552 R553	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 5% 2.2K 5%	1/10W 1/10W
	R412 R413 R414 R416 R417	1-216-171-00 1-216-171-00 1-216-171-00 1-216-113-00 1-216-063-00	METAL GLAZE METAL GLAZE	75 5% 75 5% 75 5% 470K 5% 3.9K 5%	1/8W 1/8W 1/8W 1/10W 1/10W	R554 R555 R556 R558 R563	1-216-121-00 1-249-421-11 1-216-049-00 1-249-385-11 1-216-097-00	METAL GLAZE CARBON METAL GLAZE CARBON METAL GLAZE	1M 5% 2.2K 5% 1K 5% 2.2 5% 100K 5%	1/10W 1/4W F 1/10W 1/4W F 1/10W
	R419 R420 R423 R424 R425	1-216-113-00 1-216-063-00 1-216-015-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 3.9K 5% 39 5% 100 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R564 R565 R566 R567 R568	1-216-073-00 1-216-055-00 1-216-045-00 1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 1.8K 5% 680 5% 680 5% 680 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	R426 R427 R428 R470 R501	1-216-025-00 1-216-025-00 1-249-393-11 1-216-113-00 1-247-895-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON	100 5% 100 5% 10 5% 470K 5% 470K 5%	1/10W 1/10W 1/4W F 1/10W 1/4W	R569 R570 R571 R572 R573	1-216-055-00 1-216-009-00 1-216-009-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 5% 22 5% 22 5% 1K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	R502 R503 R504 R505 R506	1-249-377-11 1-249-377-11 1-249-417-11 1-249-419-11 1-215-920-11	CARBON CARBON	0.47 5% 0.47 5% 1K 5% 1.5K 5% 3.3K 5%	1/4W F 1/4W F 1/4W 1/4W 3W F	R574 R575 R576 R577 R579	1-216-041-00 1-216-186-00 1-216-025-00 1-216-025-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 330 5% 100 5% 100 5% 6.8K 5%	1/10W 1/8W 1/10W 1/10W 1/10W
	R507 R508 R509 R510 R511	1-249-429-11 1-216-372-11 1-216-478-11 1-216-073-00 1-247-811-31	CARBON METAL OXIDE METAL OXIDE METAL GLAZE CARBON	10K 5% 1.8 5% 390 5% 10K 5% 150 5%	1/4W F 2W F 3W F 1/10W 1/4W	R580 R581 R582 R583 R584	1-216-049-00 1-216-033-00 1-216-037-00 1-216-055-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 220 5% 330 5% 1.8K 5% 390 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	R513 R514 R515 R516 R517	1-216-049-00 1-215-877-11 1-249-430-11 1-249-417-11 1-249-426-11	METAL GLAZE METAL OXIDE CARBON CARBON CARBON	1K 5% 22K 5% 12K 5% 1K 5% 5.6K 5%	1/10W 1W F 1/4W F 1/4W 1/4W F	R585 R586 R587 R588 R589	1-216-073-00 1-216-047-00 1-216-047-00 1-216-101-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 820 5% 820 5% 150K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	R518 R519 R520 R521 R522	1-249-425-11 1-249-417-11 1-215-925-11 1-215-877-11 1-216-057-00	CARBON CARBON METAL OXIDE METAL OXIDE METAL GLAZE	4.7K 5% 1K 5% 22K 5% 22K 5% 2.2K 5%	1/4W F 1/4W F 3W F 1W F 1/10W	R590 R591 R592 R593 R594	1-216-049-00 1-216-073-00 1-216-083-00 1-216-071-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 10K 5% 27K 5% 8.2K 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
•	R523 R524 R525 R526 R527	1-216-083-00 1-216-083-00 1-216-097-00 1-216-067-00 1-249-429-11	METAL GLAZE	27K 5% 27K 5% 100K 5% 5.6K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/4W	R595 R596 R597 R598 R600	1-216-053-00		470 0.50% 5.6K 5% 22K 5% 1.5K 5% 100 5%	6 1/10W 1/10W 1/8W 1/10W 1/8W
	R532	1-216-059-00 1-216-077-00 1-249-385-11 1-216-033-00 1-216-476-11	METAL GLAZE CARBON	2.7K 5% 15K 5% 2.2 5% 220 5% 180 5%	1/10W 1/10W 1/4W F 1/10W 3W F	R606 R609 R610 R611 R613	1-216-689-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 39K 5% 1K 5% 0 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	R537 R540 R541 R542 R543	1-216-476-11 1-216-049-00 1-216-081-00 1-216-081-00 1-216-049-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	180 5% 1K 5% 22K 5% 22K 5% 1K 5%	3W F 1/10W 1/10W 1/10W 1/10W	R614 R618 R620 R621 R624	1-216-061-00 1-216-065-00 1-216-399-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	6.8 5% 3.3K 5% 4.7K 5% 6.8 5% 10K 5%	3W F 1/10W 1/10W 3W F 1/10W
	R545 R546 R547	1-216-049-00 1-216-049-00 1-216-083-00 1-216-067-00 1-216-077-00	METAL GLAZE METAL GLAZE	1K 5% 1K 5% 27K 5% 5.6K 5% 15K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R625 R626 R627 R628 R629	1-216-033-00 1-215-866-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE	22K 5% 220 5% 220 5% 330 5% 18K 5%	1/10W 1/10W 1/10W 1W F 3W F
	R550	1-216-073-00 1-249-385-11 1-216-077-00	CARBON	10K 5% 2.2 5% 15K 5%	1/10W 1/4W F 1/10W	R631 R632 R636	1-216-055-00 1-216-051-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 5% 1.2K 5% 100 5%	1/10W 1/10W 1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	I		REMARK
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R638 R640	1-216-009-00 1-216-081-00	METAL GLAZE 22 METAL GLAZE 22K	5% 1/10W 5% 1/10W		C151	1-124-477-11		47MF	20%	16V
R641	1-216-073-00		5% 1/10W		C152 C161	1-124-477-11 1-124-477-11	ELECT	47MF 47MF	20% 20%	16V 16V
R642 R643	1-216-295-91 1-216-073-00		5% 1/10W 5% 1/10W		C162 C173	1-124-477-11 1-163-017-00	ELECT CERAMIC CHIP	47MF 0.0047MF	20% 10%	16V 50V
R644	1-215-912-11	METAL OXIDE 150	5% 3W	F	C174		CERAMIC CHIP		0.5PF	50V
R645	1-215-912-11	METAL OXIDE 150	5% 3W	F	C175	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
R646	1-216-073-00		5% 1/10W		C177		CERAMIC CHIP		10%	25V
R650 R651	1-216-055-00 1-216-055-00				C191 C201		CERAMIC CHIP		10%	50V 16V
R655	1-216-083-00	METAL GLAZE 27K	5% 1/10W		C202		CERAMIC CHIP		10%	50V
R656	1-216-089-00	METAL GLAZE 47K	5% 1/10W		C203	1-124-477-11	ELECT	47MF	20%	16V
R657	1-216-238-91		5% 1/8W		C204		CERAMIC CHIP		4.00	16V
R1520 R2219	1-249-429-11 1-216-174-00		5% 1/4W 5% 1/8W		C205 C206		CERAMIC CHIP		10% 5%	50V 50V
R2220	1-216-174-00		5% 1/8W		C207		CERAMIC CHIP		3.0	25V
R2221	1-216-174-00	METAL GLAZE 100	5% 1/8W		d200	1 162 141 00	CEDANTO CUID	0 001ME	5%	50V
R2222	1-216-174-00	METAL GLAZE 100	5% 1/8W		C208 C302		CERAMIC CHIP		ງຈ 10%	50V
			·		C502	1-124-477-11		47MF	20%	16V
	< TRA	NSFORMER >			C503 C901	1-164-232-11 1-124-477-11	CERAMIC CHIP	0.01MF 47MF	10% 20%	50V 16V
T501 T502	1-439-545-11 1-437-078-00	TRANSFORMER, FERRIT	E NTAL DRIVE		C902		CERAMIC CHIP		10%	50V
	< TUN	IER >				< FII	TER >			
TU101	1-693-185-11	TUNER (UV916H)			CF171		FILTER, CERAM			
	- CRV	STAL >			CF172 CF173		FILTER, CERAM FILTER, CERAM			
					CF174		FILTER, CERAM			
X302 X501		VIBRATOR, CRYSTAL VIBRATOR, CERAMIC			SWF101	1-579-273-11	FILTER, SURFA	CE WAVE		
		*******	******		SWF103		FILTER, SURFA			
						< COM	NNECTOR >			
	1-46/-5/3-11	IF BLOCK (IFH-389FX			CN1	1-750-919-11	PIN, CONNECTO	R (PC BOARI) 10P	*
	< CAT	PACITOR >			CN2	1-750-919-11	PIN, CONNECTO	R (PC BOARI) 10P	
01.01		CERAMIC CHIP 0.0047	100.	E 017		< TR	IMMER >			
C101 C102		CERAMIC CHIP 0.004/		50V 50V	CT101	1-760-154-21	TRAP, CERAMIC	!		
		CERAMIC CHIP 0.0047		50V	CT131	1-409-430-11	TRAP, CERAMIC	!		
C111 C112		CERAMIC CHIP 0.1MF CERAMIC CHIP 470PF	10% 5%	25V 50V		< DIC	ODE >			
C113	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V	D101	8-719-914-43	DIODE DAN202F	•		
C114	1-124-925-11	ELECT 2.2MF	20%	50V	D171	8-719-914-43	DIODE DAN202F	(
C115	1-124-916-11		20%	50V	D201	8-719-914-43	DIODE DAN2021	(
C116 C117	1-124-916-11 1-163-090-00	ELECT 22MF CERAMIC CHIP 7PF	20% 0.25PF	50V 50V		< IC	>			
C120	1-124-925-11	ELECT 2.2MF	20%	50V	IC1	8-759-193-13	TC			
C121	1-124-925-11		20%	50V	IC2	8-759-514-54	IC BA7046			
C122		CERAMIC CHIP 0.22MF		16V	IC3		IC CXA1875M			
C123 C126		CERAMIC CHIP 0.01MF CERAMIC CHIP 2PF	10% 0.25PF	50V 50V	IC4	8-759-710-86	IC NJM2233BM			
C128		CERAMIC CHIP 0.22MF				< CO	IL >			
C128		CERAMIC CHIP 0.22MF	10% 5%	16V 50V	L101	1-408-419-00	INDUCTOR	68UH		
C132	1-163-097-00	CERAMIC CHIP 15PF	5%	50V	L102	1-410-985-11	INDUCTOR CHIE	0.22UH		
C133 C134		CERAMIC CHIP 68PF CERAMIC CHIP 33PF	5% 5%	50V 50V	L131 L132	1-408-407-00 1-410-426-21		6.8UH 39UH		
					L142	1-408-409-00		10UH		
C135 C141	1-124-477-11	ELECT 47MF CERAMIC CHIP 82PF	20% 5%	16V 50V	L171	1_400_600_41	TNIDITOMOR	33UH		
C141		CERAMIC CHIP 82PF CERAMIC CHIP 100PF	5% 5%	50V 50V	L201	1-408-609-41 1-408-419-00		68UH		
C145	1-124-477-11		20%	16V	L501	1-408-411-00		15UH		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMA
L901	1-408-411-00	INDUCTOR 15UH		JR137	1-216-296-91	METAL GLAZE 0	5%	1/8W
Q101 Q102 Q104	< TRA 8-729-104-80 8-729-901-01 8-729-901-01	INDUCTOR 15UH INSISTOR > TRANSISTOR 2SC3355 TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR		JR138 JR140 JR141 JR142 JR143	1-216-296-91 1-216-296-91 1-216-296-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 5% 5%	1/8W 1/8W 1/8W 1/10W 1/8W
Q121 Q131 Q132 Q141 Q142	8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412R-QR TRANSISTOR 2SC2412K-QR		JR145 JR146 JR150 JR152 JR154	1-216-296-91 1-216-295-91 1-216-295-91 1-216-296-91 1-216-296-91	METAL GLAZE O METAL GLAZE O METAL GLAZE O	5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/8W
Q151 Q152 Q153 Q154 Q161 Q162	8-729-920-74 8-729-920-74 8-729-920-74 8-729-901-01 8-729-920-74 8-729-920-74	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR		JR160 JR161 JR162 JR166 JR167	1-216-296-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W
Q174 Q175 Q176 Q181	8-729-901-01 8-729-901-01 8-729-901-01 8-729-901-01 8-729-901-01	TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G SISTOR >		R100 R102 R103 R104 R105	1-216-025-00 1-216-059-00 1-216-001-00 1-216-176-11 1-216-017-00	METAL GLAZE 2 METAL GLAZE 1 METAL GLAZE 1	.00 5% 2.7K 5% .0 5% .20 5% .17 5%	1/10W 1/10W 1/10W 1/8W 1/10W
Q191 Q201				R106 R107 R109 R111 R113	1-216-057-00 1-216-057-00 1-216-057-00 1-216-295-91 1-216-031-00	METAL GLAZE 2 METAL GLAZE 2 METAL GLAZE 0	2.2K 5% 2.2K 5% 2.2K 5% 2.2K 5% 5% 180 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR101 JR102 JR103 JR104 JR106	1-216-295-91 1-216-296-91 1-216-296-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W 1/8W 1/10W 1/8W	R114 R115 R116 R117 R118	1-216-035-00 1-216-035-00 1-216-025-00 1-216-031-00 1-216-061-00	METAL GLAZE 2 METAL GLAZE 1 METAL GLAZE 1	270 5% 270 5% 100 5% 180 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR107 JR109 JR110 JR111 JR112	1-216-295-91 1-216-295-91 1-216-295-91 1-216-296-91 1-216-295-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/8W 1/10W	R120 R131 R133 R134 R135	1-216-180-00 1-216-198-91 1-216-031-00 1-216-049-00 1-216-295-91	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1	180 5% 1K 5% 180 5% 1K 5%) 5%	1/8W 1/8W 1/10W 1/10W 1/10W
JR113 JR114 JR115 JR116 JR117	1-216-296-91 1-216-295-91 1-216-295-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/10W 1/10W 1/8W 1/8W	R136 R137 R138 R139 R140	1-216-041-00 1-216-041-00 1-216-049-00 1-216-067-00 1-216-295-91	METAL GLAZE 4 METAL GLAZE 5	170 5% 170 5% 1K 5% 5.6K 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR118 JR119 JR120 JR121 JR122	1-216-296-91 1-216-296-91 1-216-295-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/8W 1/10W 1/8W 1/8W	R142 R144 R145 R146 R147	1-216-049-00 1-216-041-00 1-216-041-00 1-216-043-00 1-216-025-00	METAL GLAZE 4 METAL GLAZE 4 METAL GLAZE 5	1K 5% 170 5% 170 5% 170 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR123 JR124 JR125 JR126 JR127	1-216-296-91 1-216-296-91 1-216-295-91 1-216-295-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/8W 1/10W 1/10W 1/8W	R148 R149 R151 R152 R153	1-216-049-00 1-216-049-00 1-216-226-00 1-216-069-00 1-216-689-11	METAL GLAZE : METAL GLAZE : METAL GLAZE :	1K 5% 1K 5% 15K 5% 6.8K 5% 39K 5%	1/10W 1/10W 1/8W 1/10W 1/10W
JR128 JR129 JR130 JR131 JR132	1-216-295-91 1-216-295-91 1-216-296-91 1-216-296-91 1-216-296-91	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/8W 1/8W 1/8W	R154 R155 R156 R161 R162	1-216-057-00 1-216-057-00 1-216-037-00 1-216-079-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 2.2K 5% 330 5% 18K 5% 6.8K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
JR133 JR134 JR135 JR136			1/8W 1/10W 1/8W 1/10W	R163 R164 R165 R166	1-216-689-11 1-216-057-00 1-216-057-00 1-216-037-00	METAL GLAZE :	39K 5% 2.2K 5% 2.2K 5% 330 5%	1/10W 1/10W 1/10W 1/10W

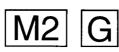


REF.NO.	PART NO.	DESCRIPTION	N		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R167	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C018	1-164-505-11			16V
R168	1-216-212-00	METAL GLAZE	3.9K	5%	1/8W	C019 C020	1-124-916-11 1-163-117-00		20% 5%	50 V 50 V
R169	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	C022	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25 V
R171 R177	1-216-045-00 1-216-025-00		680 100	5% 5%	1/10W 1/10W	C023	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R178	1-216-057-00	METAL GLAZE	2.2K		1/10W	C024	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R179	1-216-057-00	METAL GLAZE	1 177	Γ0.	1 (1014	C025	1-164-222-11			25V
R180	1-216-057-00	METAL GLAZE	2.2K 2.2K	5% 5%	1/10W 1/10W	C026 C032	1-164-222-11 1-163-117-00		5%	25V 50V
R181	1-216-041-00	METAL GLAZE	470	5%	1/10W	C035	1-163-033-91		Ja	50V 50V
R182 R183	1-216-041-00 1-216-192-00	METAL GLAZE METAL GLAZE	470 560	5% 5%	1/10W 1/8W	C036	1 164 005 11	0000000 0000 0 4000		
			300		1/04	C037	1-164-005-11 1-163-117-00		5%	25V 50V
R184 R185	1-216-043-00 1-216-067-00		560	5%	1/10W	C039	1-163-011-11		10%	50 V
R191	1-216-093-00	METAL GLAZE METAL GLAZE	5.6K 68K	5% 5%	1/10W 1/10W	C042 C044	1-162-638-11 1-163-117-00	CERAMIC CHIP 1MF CERAMIC CHIP 100PF	5%	16V 50V
R192	1-216-093-00	METAL GLAZE	68K	5%	1/10W		1 103 117 00	CHAMIC CHIP 100FF	34	304
R193	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	C522 C523	1-163-141-00 1-163-141-00		5%	50V
R194	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C524	1-163-141-00		5% 5%	50V 50V
R195 R201	1-216-216-00 1-216-198-91	METAL GLAZE	5.6K	5%	1/8W	C525	1-164-222-11	CERAMIC CHIP 0.22MF		25V
R201	1-216-198-91	METAL GLAZE METAL GLAZE	1K 270K	5% 5%	1/8W 1/10W	C528	1-163-105-00	CERAMIC CHIP 33PF	5%	50V
R203	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C529	1-163-169-00		5%	50 V
R204	1-216-113-00	METAL GLAZE	470K	5%	1/10W .	C541 C542	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
R205	1-218-755-11		130K		1/10W . 1/10W	C542	1-163-037-11	CERAMIC CHIP 0.022MF CERAMIC CHIP 0.0022MF	10% 10%	25V 50V
R206 R207	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C544	1-164-161-11		10%	50V
R207	1-216-113-00 1-216-113-00	METAL GLAZE METAL GLAZE	470K 470K	5% 5%	1/10W 1/10W	C546	1-164-004-11	CERAMIC CHIP 0.1MF	1.00	251
			4704	3.0	•	C547	1-163-020-00	CERAMIC CHIP 0.1MF	10% 10%	25V 50V
R209 R210	1-216-049-00 1-216-081-00		1K 22K	5% 5%	1/10W	C549	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
R211	1-216-073-00		10K	5%	1/10W 1/10W	C550 C559	1-163-141-00 1-164-004-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF	5% 10%	50V 25V
R301 R302	1-216-073-00	METAL GLAZE	10K	5%	1/10W				10.0	
K302	1-216-073-00	METAL GLAZE	10K	5%	1/10W	C560 C563	1-164-161-11 1-163-031-11		10%	50V 50V
R303	1-216-049-00	METAL GLAZE	1K	5%	1/10W	C564	1-163-031-11			50V 50V
R306 R308	1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE	1 K 10K	5% 5%	1/10W 1/10W	C565	1-163-031-11	CERAMIC CHIP 0.01MF		50V
R309	1-216-025-00	METAL GLAZE	100	5%	1/10W 1/10W	C566	1-163-031-11	CERAMIC CHIP 0.01MF		50V
R310	1-216-025-00	METAL GLAZE	100	5%	1/10W	C567	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50 v
	< VAR	IABLE RESISTOR	>			C568 C569	1-163-009-11 1-164-161-11		10% 10%	50V 50V
Dev1 4 4	1 044 705 44			_		C570	1-162-568-11	CERAMIC CHIP 0.33MF	10%	16V
RV111 RV112	1-241-786-11 1-241-765-11	RES, ADJ, CAR RES, ADJ, CAR	BON 22 BON 22	K K	•	C571	1-163-038-91	CERAMIC CHIP 0.1MF		25V
						C2001	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
	< TKA	NSFORMER >				C2002 C2004	1-163-235-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.22MF	5%	507
T111	1-403-686-22	COIL				C2005		CERAMIC CHIP 0.22MF		25V 25V
******	*****	******	*****	*****	*****	C2008	1-164-222-11	CERAMIC CHIP 0.22MF		25 V
						C2016		CERAMIC CHIP 0.22MF		25V
	*A-1635-029-A	M2 BOARD, COM				C2017 C2018	1-164-222-11	CERAMIC CHIP 0.22MF		25V
						C2018	1-104-505-11	CERAMIC CHIP 2.2MF ELECT 22MF	20%	16V 50V
	< CAP	ACITOR >				C2020		CERAMIC CHIP 0.22MF		25V
C001	1-163-117-00	CERAMIC CHIP	100PF	!	5% 50V	C2021	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C004 C007	1-164-222-11	CERAMIC CHIP CERAMIC CHIP	0.22MF		25V	C2024	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF		5% 50V 5% 50V	C2025 C2027	1-164-222-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.22MF	5%	50V 25V
C010	1-163-117-00	CERAMIC CHIP	100PF		5% 50V					#JT
C011	1-163-117-00	CERAMIC CHIP	100PF	!	5% 50V		< FII	TER >		
C012 C014	1-163-117-00	CERAMIC CHIP	100PF		5% 50V	CD001	1-579-126-11	VIBRATOR, CERAMIC		
C016	1-163-141-00	CERAMIC CHIP	0.001M		5% 50V 5% 50V		< CON	NECTOR >		
C017	1-164-222-11	CERAMIC CHIP	0.22MF		25V	CN1413			DD 44=	
						CMIATO	1-033-301-11	CONNECTOR, BOARD TO BOA	KU 40P	



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	l		REMAR
CN1426 CN1432 CN1435	*1-568-881-51 *1-568-882-51 *1-568-881-51	PIN, CONNECTOR 61 PIN, CONNECTOR 71 PIN, CONNECTOR 61	? ?		R020 R021 R022 R023	1-216-049-00 1-216-065-00 1-216-057-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K 2.2K 100	5% 5%	1/10W 1/10W 1/10W 1/10W
	< DIO	DE >			R024	1-216-025-00	METAL GLAZE	100	5%	1/10W
D001 D2001 D2003 D2007	8-719-027-82 8-719-036-58 8-719-914-44 8-719-914-44	DIODE MA3039H DIODE MA3030-H DIODE DAP202K DIODE DAP202K			R025 R026 R027 R028	1-216-049-00 1-216-049-00 1-216-049-00 1-216-677-11		1K 1K 1K 12K	5%	1/10W 1/10W 1/10W 1/10W
	< IC	>			R030	1-216-049-00	METAL GLAZE	1K	5%	1/10W
IC001 IC002 IC561 IC562	8-759-294-04 8-759-327-55 1-750-797-11 8-752-347-92 8-759-998-98	PIN, CONNECTOR 6: PIN, CONNECTOR 7: PIN, CONNECTOR 7: PIN, CONNECTOR 6: DIODE MA3039H DIODE MA3030-H DIODE DAP202K DIODE DAP202K IC SDA30C163-2GE IC TMS27PC010A15: SOCKET, PLCC; IC IC CXD2018Q IC LM358D IC LM78L05ACZ IC SDA5273P-C22-(IC MB81C4256A-70: IL > INDUCTOR 1:	9 FMAE230 C002		R032 R033 R034 R035 R038	1-216-049-00 1-216-049-00 1-216-057-00 1-216-057-00 1-216-073-00	METAL GLAZE	1K 1K 2.2K 2.2K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
IC563 IC2002 IC2003	8-759-991-41 8-759-262-58 8-759-188-60	IC LM78L05ACZ IC SDA5273P-C22-IC MB81C4256A-70	GEG PSZG		R049 R050 R051 R052 R053	1-216-049-00 1-216-073-00 1-216-081-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE	1K 10K 22K 10K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	< COI	L >			R054	1-216-081-00		22K		1/10W
L001 L561 L562 L563 L2001	1-408-409-00 1-408-409-00 1-408-947-00	INDUCTOR 1: INDUCTOR 1: INDUCTOR 2	OUH OUH . 2MMH		R055 R060 R067 R068	1-216-081-00 1-216-057-00 1-216-043-91 1-216-043-91	METAL GLAZE METAL GLAZE METAL GLAZE	22K 2.2K 560 560	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	< TRA	NSISTOR >			R069 R071	1-216-037-00 1-216-198-91	METAL GLAZE	330 1K	5%	1/10W 1/8W
Q002 Q003 Q564	8-729-216-22 8-729-920-74 8-729-216-22	TRANSISTOR 2SA11 TRANSISTOR 2SC24 TRANSISTOR 2SA11	6 2-G 12K-QR 62-G		R535 R536 R538	1-216-057-00 1-216-057-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W
Q565 Q566	8-729-920-74 8-729-920-74	TRANSISTOR 2SC24 TRANSISTOR 2SC24	12K-QR 12K-QR		R539 R541 R542	1-216-657-11 1-216-049-00 1-216-025-00	METAL CHIP METAL GLAZE METAL GLAZE	1.8K 1K 100	0.50% 5% 5%	1/10W 1/10W 1/10W
Q567 Q2001 Q2002 Q2003	8-729-901-01 8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR DTC14 TRANSISTOR 2SC24 TRANSISTOR 2SC24 TRANSISTOR 2SA11	4EK 12K-QR 12K-QR		R544 R545 R546	1-216-085-00 1-216-033-00 1-216-061-00	METAL GLAZE METAL GLAZE	33K 220 3.3K	5% 5%	1/10W 1/10W 1/10W
Q2004	8-729-920-74	TRANSISTOR 2SC24	12K-QR		R547 R551	1-216-651-11	METAL CHIP	1K 1K	0.50%	1/10W
Q2005 Q2006 Q2008	8-729-920-74 8-729-901-01 8-729-901-00	TRANSISTOR 2SC24 TRANSISTOR DTC14 TRANSISTOR DTC12	12K-QR 4EK 4EK		R552 R553	1-216-049-00 1-216-097-00 1-216-085-00		100K 33K	5% 5% 5%	1/10W 1/10W 1/10W
	< RES	SISTOR >			R559 R560	1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE	1K 10K	5% 5%	1/10W 1/10W
JR551 JR553 JR557	1-216-295-91 1-216-295-91 1-216-295-91	METAL GLAZE 0	5% 5% 5%	1/10W 1/10W 1/10W	R564 R565 R566	1-216-091-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE	56K 4.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W
R001 R002 R003 R004 R005	1-216-025-00 1-216-025-00 1-216-049-00 1-216-049-00 1-216-295-91	METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 0	0 5% 0 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R567 R568 R570 R571 R2001	1-216-085-00 1-216-109-00 1-216-049-00 1-216-073-00 1-216-065-00	METAL GLAZE	33K 330K 1K 10K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R007 R008 R010 R011 R012	1-216-073-00 1-216-049-00 1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE 10 METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2002 R2003 R2004 R2005 R2007	1-216-043-91 1-216-065-00 1-216-037-00 1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 4.7K 330 470 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R014 R016 R017 R018 R019	1-216-049-00 1-216-045-00 1-216-049-00 1-216-041-00 1-216-025-00	METAL GLAZE 1K METAL GLAZE 68 METAL GLAZE 1K METAL GLAZE 47 METAL GLAZE 10	0 5% 5% 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R2008 R2009 R2010 R2011 R2012	1-216-025-00 1-216-057-00 1-216-025-00 1-216-057-00 1-216-631-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	100 2.2K 100 2.2K 150	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W

Replace only with the part number specified.



REF.NO. PART NO. DESCRIPTION REMARK REF.NO. PART NO. DESCRIPTION REMARK R2013 0.50% 1/10W 1-216-631-11 METAL CHIP 150 C662 1-126-943-11 ELECT 2200MF 20% 25V R2014 1-216-631-11 METAL CHIP 150 0.50% 1/10W R2017 1-216-081-00 METAL GLAZE 22K 5% 1/10W C663 1-126-943-11 ELECT 2200MF 20% 25V R2018 1-216-081-00 METAL GLAZE 5% 1/10W 22K C664 1-126-943-11 ELECT 2200MF 20% 25V 1-216-081-00 R2019 METAL GLAZE 22K 5% 1/10W C665 1-126-943-11 ELECT 2200MF 20% 25V C666 1-126-943-11 ELECT 2200MF 20% 25V R2020 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W 1-126-943-11 ELECT C667 2200MF 20% 25V 1-216-057-00 METAL GLAZE R2021 5% 2.2K 1/10W R2022 1-216-033-00 METAL GLAZE 220 5% 1/10W C669 1-124-907-11 ELECT 10MF 20% 50V METAL GLAZE R2023 1-216-025-00 5% 100 1/10W C670 1-102-002-00 CERAMIC 680PF 10% 500**v** R2025 1-216-063-00 METAL GLAZE 3.9K 5% 1/10W C671 1-102-002-00 CERAMIC 680PF 10% 500V C672 1-102-002-00 CERAMIC 680PF 10% 500V R2026 1-216-065-00 METAL GLAZE 4.7K 1/10W C673 1-102-002-00 CERAMIC 680PF 10% 500V R2030 1-216-295-91 METAL GLAZE 0 5% 1/10W R2032 1-216-049-00 METAL GLAZE 1K 5% 1/10W C674 1-124-480-11 ELECT 470MF 20% 25V R2036 1-216-049-00 METAL GLAZE 1K 5% 1/10W C675 1-124-907-11 10MF ELECT 20% 50V R2037 1-216-049-00 METAL GLAZE 5% 1/10W C680 1-124-478-11 ELECT 100MF 20% 25V 1-124-910-11 C681 ELECT 47MF 20% 50V R2039 1-216-041-00 METAL GLAZE 470 5% 0.0047MF 1/10W C1802 1-162-599-12 CERAMIC 20% 400V R2040 1-216-055-00 METAL GLAZE 1.8K 5% 1/10W C1803 1-162-599-12 CERAMIC 0.0047MF 20% 400V < CRYSTAL > C1804 1-125-555-11 ELECT 330MF 20% 400V C1805 1-162-578-51 CERAMIC 0.0047MF 20% 400V X2001 1-579-965-21 VIBRATOR, CRYSTAL C1808 1-162-578-51 CERAMIC 0.0047MF 20% 400V C1816 1-136-519-12 FILM 0.47MF 20% 300V ******************* 0.47MF C1817 1-136-519-12 FILM 20% 300V *A-1637-002-A G BOARD, COMPLETE 0.0047MF C1820 1-162-599-12 CERAMIC 20% 400V ************ C1821 1-162-599-12 CERAMIC 0.0047MF 20% 400V < CAPACITOR > < CONNECTOR > C600 1-125-497-11 ELECT(BLOCK) 100MF 20% 400V CN1605 *1-568-879-11 PIN, CONNECTOR 4P C601 1-130-202-00 FILM 0.022MF 10% 400V CN1627 *1-564-512-11 PLUG, CONNECTOR 9P C605 1-124-910-11 ELECT 47MF 20% 50V *1-568-882-51 PIN, CONNECTOR 7P CN1628 C608 1-124-903-11 ELECT 1MF 20% 50V CN1652 1-564-511-11 PLUG, CONNECTOR 8P PIN, CONNECTOR 4P 1-102-002-00 CERAMIC 680PF C611 10% 500V *1-568-879-11 CN1653 C612 1-130-481-00 FILM 0.0068MF 5% 50V CN1654 1-766-278-21 PIN, CONNECTOR (PC BOARD) 5P 1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P C613 1-129-722-00 FILM 0.047MF 10% 630V CN1655 C617 1-162-116-00 CERAMIC 680PF 10% 2KV 1-508-786-00 CN1656 PIN, CONNECTOR (5MM PITCH) 2P 1-162-115-00 CERAMIC TAB (CONTACT) C618 330PF 10% 2KV CN1661 1-695-915-11 C619 1-102-002-00 CERAMIC 680PF 10% 500V 1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P CN1857 C620 1-130-772-00 FILM 0.22MF 5% 63V CN1858 * *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P CN1859 * *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P C621 1-124-347-00 ELECT 100MF 20% 160**V** C622 1-124-347-00 ELECT 100MF 20% 160V CN1860 3: *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P C623 1-126-800-51 ELECT 2200MF 20% 25V 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P C624 1-124-347-00 ELECT 100MF 20% 160V < DIODE > C625 1-126-183-11 ELECT 1000MF 20% 16V C626 1-126-800-51 ELECT 2200MF 20% 25V D602 8-719-302-43 DIODE EL1Z C627 1-137-365-11 FILM 0.0015MF 5% 50V D603 8-719-029-04 DIODE D5L60 SPRING, IC; D603 C628 1-124-910-11 ELECT 47MF 20% 50V *4-389-343-11 1-124-907-11 ELECT C629 10MF 20% 50V D604 8-719-029-04 DIODE D5L60 *4-389-343-11 SPRING, IC : D604 C632 1-137-372-11 FILM 0.022MF 5% 50V C633 1-137-419-11 FILM 0.033MF 5% 63V D606 8-719-302-43 DIODE EL1Z 1-130-777-00 FILM C636 0.1MF 5% 63V D608 8-719-300-33 DIODE RU-3AM C640 1-124-916-11 ELECT 22MF 20% 50V D610 8-719-970-39 DIODE ESAC92M-02 1-162-116-00 CERAMIC C643 680PF 10% 2KV *4-389-343-11 SPRING, IC; D610 C650 1-102-002-00 CERAMIC 680PF 10% 500V D611 8-719-510-41 DIODE D10SC9M C651 1-124-480-11 ELECT 470MF 25V 20% *4-389-343-11 SPRING, IC; D611 C653 1-124-478-11 ELECT 100MF 20% 25V D612 8-719-510-09 DIODE D10SC6M C654 1-124-907-11 ELECT 10MF *4-389-343-11 SPRING, IC; D612 20% 50V 1-124-120-11 ELECT C655 220MF 20% 16V D613 8-719-300-33 DIODE RU-3AM C658 1-126-943-11 ELECT 2200MF 20% 25V D614 8-719-510-41 DIODE D10SC9M C659 1-124-478-11 ELECT 100MF 20% 25V *4-389-343-11 SPRING, IC; D614 1-126-943-11 ELECT C660 2200MF 20% 25V D615 8-719-975-76 DIODE SB140 C661 1-124-478-11 ELECT 100MF 20% 25V D616 8-719-923-78 DIODE MTZJ-12

shading and marked : are critical for safety.
Replace only with the part number specified.



REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
D617	8-719-110-03	DIODE RD7.5ESB2			< TRA	NSISTOR >			
D619 D620 D621	8-719-510-41	DIODE SB140 DIODE 1SS133 DIODE D10SC9M SPRING, IC; D621		Q601 Q611 Q612	4-200-001-11 4-201-023-11 8-729-119-78	TRANSISTOR 2S	Q601 ATING ; Q601 C2785-HFE		
D622 D623 D634 D638	*4-389-343-11 8-719-901-33 8-719-901-33	DIODE D10SC9M SPRING, IC; D622 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133		Q614 Q618 Q620 Q621		TRANSISTOR 2S	D2012 Q614 C2785-HFE C2785-HFE		
D650 D653 D654 D655 D656	8-719-908-03 8-719-908-03 8-719-908-03 8-719-908-03 8-719-908-03	DIODE GP08D DIODE GP08D DIODE GP08D		Q623 Q629	8-729-119-76 8-729-378-84	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1175-HFE		
D657 D658 D659 D660 D1801		DIODE GP08D		R601 R602 R604 R605 R606	1-216-353-00 1-249-425-11 1-214-921-00 1-249-392-11 1-249-409-11	CARBON CARBON CARBON	2.2 5% 4.7K 5% 220K 5% 8.2 5% 220 5%	1W 1/4W 1/2W 1/4W 1/4W	F
	< FUS	SE >		R607 R608	1-249-423-11 1-215-926-51		3.3K 5% 33K 5%	1/4W 3W	
		FUSE (H.B.C.) 5A/250V	、上面分享尽力必须有高度的原则 人工程证明(1996年年度原则的原则 (如于1996年)(1996年)(1997年)	R609 R610 R611	1-249-392-11 1-247-881-00 1-247-739-11	CARBON CARBON	33K 5% 8.2 5% 120K 5% 100 5%	1/4W 1/4W 1/4W	F
FB607 FB612 FB622	1-410-397-21	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	1.1UH	R612 R613 R614 R615	1-247-897-11 1-247-893-11 1-216-485-11 1-216-485-11	CARBON METAL OXIDE	560K 5% 390K 5% 5.6K 5% 5.6K 5%	1/4W 1/4W 3W 3W	F
	< IC	>		R616	1-216-485-11		5.6K 5%	3W	F
IC601 IC602 IC603 IC605	8-759-908-15 8-749-923-44 8-759-708-05	IC NJM78L05A	・ - *** *** *** *** *** *** *** *** *** *	R617 R619 R620 R621 R622	1-249-409-11 1-216-444-11 1-249-415-11 1-215-431-00 1-249-413-11	METAL OXIDE CARBON METAL	220 5% 82K 5% 680 5% 2.7K 1% 470 5%	1/4W 1W 1/4W 1/4W 1/4W	F
	< CO	IL >		R623	1-249-429-11	CARBON	10K 5%	1/4W	
L601 L602 L603 L604 L606	1-410-397-21 1-459-862-11 1-410-396-41	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR COIL, CHOKE 90UH FERRITE BEAD INDUCTOR COIL, CHOKE 90UH	1.1UH	R626 R628 R629 R632	1-215-405-00 1-249-410-11 1-215-460-00 1-249-409-11	METAL CARBON METAL	220 1% 270 5% 43K 1% 220 5%	1/4W 1/4W 1/4W 1/4W	F
L609 L610 L611 L621 L622	1-410-396-41	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 180UH INDUCTOR 47UH		R633 R634 R635 R636 R637	1-249-415-11 1-215-477-00 1-247-863-91 1-215-890-11 1-247-895-00	METAL CARBON METAL OXIDE CARBON	680 5% 220K 1% 22K 5% 470 5% 470K 5%	1/4W 1/4W 1/4W 2W 1/4W	F
L623	1-412-533-21	INDUCTOR 47UH		R638 R639	1-249-429-11 1-249-423-11	CARBON	10K 5% 3.3K 5%	1/4W 1/4W	
	< LII	NE FILTER >		R640 R642 R643	1-216-362-11 1-249-423-11 1-249-377-11	CARBON	0.27 5% 3.3K 5% 0.47 5%	2W 1/4W 1/4W	
LF180; LF180; LF180;	3 1-424-436-11	TRANSFORMER, LINE FILT TRANSFORMER, LINE FILT TRANSFORMER, LINE FILT LINK >	PER	R644 R645 R649 R651 R659	1-249-377-11 1-249-425-11 1-215-467-00 1-249-424-11 1-249-426-11 1-249-414-11	CARBON METAL CARBON CARBON	4.7K 5% 82K 1% 3.9K 5% 5.6K 5% 560 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	1-532-637-91	LINK, IC 1A (ICP-N25)	The second secon	R660 R687 R691 R694 R697	1-249-413-11 1-249-417-11 1-249-429-11 1-249-421-11 1-249-382-11	CARBON CARBON CARBON CARBON	470 5% 1K 5% 10K 5% 2.2K 5% 1.2 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W	F

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specified.	

REF.NO.	PART NO.	DESCRIPTION	<u>DN</u>		REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		REMARK
R1801 R1806 R1807 R1808 R1809	1-260-132-11 1-205-949-11 1-205-949-11 1-244-945-91 1-218-265-11	WIREWOUND WIREWOUND CARBON	560K 5% 1.8 5% 1.8 5% 1M 5% 8.2M 5%	1/2W 10W 10W 1/2W	の できない (1980年) (1980	NL702	1-519-237-14	N LAMP > LAMP, NEON NSISTOR >			
A1810	1-205-949-11 1-205-949-11	WIREWOUND	1.8 5% 1.8 5%	10W 10W		Q701 Q702	8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2			
	< VAR	RIABLE RESISTO)R >			Q703	8-729-119-80 4-373-933-01	SHEET (TRANS	ISTOR), B	N ; Q703	•
RV601	1-241-628-11	RES, ADJ, CA	ARBON 2.2K			Q704	4-382-854-11 8-729-255-12	•		(+) ; Q/U.	3
	< REL	AY >				Q705 Q706	8-729-200-17 8-729-200-17	TRANSISTOR 2	SA1091-0		
RY601	1-755-032-11	RELAY				2,00		ISTOR >	D111071 0		
	< TRA	NSFORMER >				R701	1-202-847-00		560K 2	0% 1/2W	
T601 T602 T603 T604	1-426-954-11 1-426-953-11 1-426-955-11 1-450-149-11	TRANSFORMER, TRANSFORMER,	CONVERTER** POWER			R702 R704 R705 R706	1-202-814-11 1-202-842-11 1-202-828-11 1-202-561-00	SOLID SOLID		0% 1/2W 0% 1/2W 0% 1/2W	
*****	******	******	******	*****	*****	R707	1-216-510-11		8.2K 5		F
	*A-1638-049-A	CR BOARD, CO				R708 R709 R710 R711	1-249-405-11 1-249-405-11 1-215-927-00 1-249-405-11	CARBON METAL OXIDE	100 5' 100 5' 47K 5' 100 5'	% 1/4W % 3W	F F
	< CAP	PACITOR >				R712	1-249-421-11		2.2K 5		
C701 C702 C703 C704 C705	1-162-115-00 1-123-948-00 1-102-050-00 1-162-115-00 1-130-479-00	ELECT CERAMIC CERAMIC	330PF 22MF 0.01MF 330PF 0.0047MF	10% 20% 99% 10% 5%	2KV 250V 500V 2KV 50V	R714 R716 R717 R718	1-249-401-11 1-247-807-31 1-249-399-11 1-249-412-11	CARBON CARBON CARBON	47 5' 100 5' 33 5' 390 5'	% 1/4W % 1/4W % 1/4W	
C706 C707 C709 C710 C711	1-101-006-00 1-101-006-00 1-124-120-11 1-124-120-11 1-102-114-00	CERAMIC CERAMIC ELECT ELECT	0.047MF 0.047MF 220MF 220MF 470PF	20% 20% 10%	50V 50V 16V 16V 50V	R719 R720 R721 R722 R724	1-247-811-31 1-247-807-31 1-249-409-11 1-215-423-00 1-215-429-00	CARBON CARBON METAL	150 5 100 5 220 5 1.2K 1 2.2K 1	% 1/4W % 1/4W % 1/4W	
	< CON	INECTOR >					< VAR	IABLE RESISTO	R >		
CR1 CR3	1-508-765-00	PIN, CONNECT PIN, CONNECT	OR (5MM PIT			RV701	1-249-410-11 < SPA	CARBON RK GAP >	270 5	% 1/4W	
CR4 CR15	1-564-511-11 *1-568-880-51					SG702	1-519-422-11	GAP, SPARK			
	< CRT	SOCKET >				*****	******	*****	*******	******	******
And the second s	2-251-179-11		1		· 在本書在六十四日 · 在本書在六十四日		*A-1638-050-A	CB BOARD, CO			
	< DIO						< CAP	ACITOR >			
D701 D702 D703 D704 D705	8-719-901-33 8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133				C761 C762 C763 C764	1-162-115-00 1-123-948-00 1-102-050-00 1-162-115-00	ELECT CERAMIC CERAMIC	330PF 22MF 0.01MF 330PF	10% 20% 99% 10%	2KV 250V 500V 2KV
D706 D707		DIODE 1SS133 DIODE MTZJ-1				C765	1-130-479-00 1-101-006-00	CERAMIC	0.0047MF 0.047MF	5%	50V 50V
	< COI	[L >				C767 C769	1-101-006-00 1-124-120-11	ELECT	0.047MF 220MF	20%	50V 16V
L701 L702 L703	1-408-429-00 1-408-159-00 1-408-159-00	COIL, SPOOK				C770 C771	1-124-120-11 1-102-114-00	CERAMIC	220MF 470PF	20% 10%	16V 50V
L704	1-408-413-00		22UH	ı		CB1	< CON 1-508-784-00	NECTOR > PIN. CONNECT	OR (5MM P	TTCH) 1 D	

1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P

shading and marked in are critical for safety.

Replace only with the part number specified.



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REF.NO.	PART NO.	DESCRIPTIO	N	REMARK	REF.NO.	PART NO.	DESCRIPT	ION		REMARK
CB3 CB4		PIN, CONNECTO PLUG, CONNECTO		H) 3P		< SPA	ARK GAP >			
CB5 CB17		PLUG, CONNECT	OR 8P		SG762	1-519-422-11	GAP, SPARK			
CBI			JK JP		******	********	******	********	*****	*****
CRT761 :	1-251-179-11	SOCKET >				*A-1638-051-A	CG BOARD, C	OMPLETE		
	< DIC	DDE >				< CAF	PACITOR >			
D761	8-719-901-33	DIODE 1SS133	4		C731	1-162-115-00	CERAMIC	330PF	10%	2KV
D762 D763		DIODE 1SS133 DIODE 1SS133			C732	1-123-948-00	ELECT	22MF	20%	250 V
D764		DIODE 188133			C733 C734	1-102-050-00 1-162-115-00		0.01MF 330PF	99% 10%	500V 2KV
D765	8-719-901-33	DIODE 1SS133			C735	1-130-479-00		0.0047MF	5%	50V
D766 D768		DIODE 1SS133			C736	1-101-006-00		0.047MF		50V
8010	8-/19-901-33	DIODE 1SS133			C737 C739	1-101-006-00 1-124-120-11		0.047MF 220MF	20%	50V 16V
	< CO1	IL >			C740	1-124-120-11		220MF	20%	16V
L761	1-408-429-00		470UH		C741	1-102-114-00	CERAMIC	470PF	10%	50V
L762 L763	1-408-159-00 1-408-159-00	COIL, SPOOK (CHOKE 3.3UH			< CON	NECTOR >			
L764	1-408-413-00		22UH		CG1	1-508-784-00				
	< NEC	ON LAMP >			CG3 CG16	1-508-765-00 *1-568-880-51			CH) 3P	
NL762	1-519-237-14	LAMP, NEON				< CRT	SOCKET >			
	< TRA	ANSISTOR >				1-251-179-11	SOCKET, CRT			
Q761		TRANSISTOR 25				< DIC	DE >			
Q762 Q763		TRANSISTOR 25			D731	8-719-901-33	DTODE 10013	2		
g: 03	4-373-933-01	SHEET (TRANS)	ISTOR), BN ;	Q763	D731	8-719-901-33				
	4-382-854-11	SCREW (M3X10)	, P, SW (+)	; Q763	D733 D734	8-719-901-33 8-719-901-33				
0764		TRANSISTOR 25			D735	8-719-901-33				
Q765 Q766		TRANSISTOR 25			D736	8-719-901-33	DIODE 18813	3		
-		SISTOR >			D737	8-719-901-33				
R761	1-202-847-00		560K 20%	1 / 214		< COI	:L >			
R762	1-202-814-11	SOLID	33K 20%	1/2W	L731	1-408-429-00		470UH		
R764 R765	1-202-842-11 1-202-828-11		220K 20% 6.8K 20%	1/2W 1/2W	L732 L733	1-408-159-00 1-408-159-00	COIL, SPOOK	CHOKE 3.3UH		
R766	1-202-561-00		330 5%	1/2W	L734	1-408-413-00		22UH		
R767	1-216-510-11		8.2K 5%	5W F		< NEC	ON LAMP >			
R768 R769	1-249-405-11 1-249-405-11	CARBON	100 5% 100 5%	1/4W F 1/4W F	NL732	1-519-237-14	LAMP, NEON			
R770 R771	1-215-927-00 1-249-405-11		47K 5% 100 5%	3W F 1/4W F		√ ጥΩ	NSISTOR >			
R772					0731					•
R774	1-249-421-11 1-249-401-11	CARBON	2.2K 5% 47 5%	1/4W F 1/4W	Q731 Q732	8-729-119-78 8 - 729-119-78				
R776 R777	1-247-807-31 1-249-399-11		100 5% 33 5%	1/4W 1/4W	Q733	8-729-119-80			. 0722	
R778	1-249-412-11		390 5%	1/4W		4-373-933-01 4-382-854-11	SCREW (M3X1	SISTOR), BN ; 0), P, SW (+)	; Q733) ; Q73	3
R779	1-249-415-11		680 5%	1/4W	Q73 4	8-729-255-12	TRANSISTOR	2SC2551-0		
R780 R781	1-247-807-31 1-249-409-11		100 5% 220 5%	1/4W 1/4W	Q735	8-729-200-17	TRANSISTOR	2SA1091-0		
R782	1-215-423-00	METAL	1.2K 1%	1/4W	Q736	8-729-200-17		ZDAIUYI-U		
R783	1-215-433-00	METAL	3.3K 1%	1/4W		< RES	SISTOR >			
R784 R785	1-215-429-00 1-215-418-00		2.2K 1% 750 1%	1/4W 1/4W	R731	1-202-847-00		560K 20%		
W1 VJ	7-517-510-00	WILL	100 T4	1/27	R732 R734	1-202-814-11 1-202-842-11		33K 20% 220K 20%		
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REF.NO.	PART NO.	DESCRIPTIO	<u>N</u>			REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>ON</u>		REMARK
R735 R736	1-202-828-11 1-202-561-00	SOLID SOLID	6.8K 330	20% 5%	1/2W 1/2W		C903 C904 C905	1-130-471-00 1-130-471-00 1-124-477-11	MYLAR MYLAR ELECT	0.001MF 0.001MF 47MF	5% 5% 20%	50V 50V 16V
R737 R738 R739 R740	1-216-510-11 1-249-405-11 1-249-405-11 1-215-927-00	METAL OXIDE CARBON CARBON METAL OXIDE	8.2K 100 100	5% 5% 5% 5%	5W 1/4W 1/4W	F	C906 C907	1-126-233-11 1-126-101-11	ELECT ELECT	22MF 100MF	20% 20%	50V 16V
R741 R742	1-249-405-11 1-249-421-11	CARBON CARBON	47K 100	5% 5%	3W 1/4W 1/4W		C908 C910 C911	1-124-907-11 1-130-483-00 1-131-341-00	ELECT MYLAR TANTALUM	10MF 0.01MF 0.1MF	20% 5% 20%	50V 50V 16V
R744 R745 R746 R747	1-249-401-11 1-215-455-00 1-247-807-31	CARBON METAL CARBON	47 27K 100	5% 1% 5%	1/4W 1/4W 1/4W		C912 C913 C914	1-124-903-11 1-126-233-11 1-126-803-11	ELECT ELECT ELECT	1MF 22MF 47MF	20% 20% 20%	50V 50V 16V
R748	1-249-399-11 1-249-412-11	CARBON CARBON	33 390	5% 5%	1/4W 1/4W		C915 C916	1-124-927-11 1-102-07 4- 00	ELECT CERAMIC	4.7MF 0.001MF	20% 10%	50 V 50 V
R750 R751 R752 R754	1-247-807-31 1-249-409-11 1-215-423-00 1-215-429-00	CARBON CARBON METAL METAL		5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W		C917 C918 C919 C920	1-130-471-00 1-102-963-00 1-102-963-00 1-102-963-00	MYLAR CERAMIC CERAMIC CERAMIC	0.001MF 33PF 33PF 33PF	5% 5% 5% 5%	50V 50V 50V
R755	1-249-410-11	CARBON	270	5%	1/ 4 W		C921	1-102-963-00	CERAMIC	33PF	5%	50V
SG732	< SPA 1-519-422-11	RK GAP >					C922 C923 C931 C932	1-102-963-00 1-102-963-00 1-102-973-00 1-124-903-11	CERAMIC CERAMIC CERAMIC ELECT	33PF 33PF 100PF 1MF	5% 5% 5% 20%	50V 50V 50V 50V
******	******	******	*****	*****	*****	*****	C934	1-126-233-11	ELECT	22MF	20%	25V
	*1-650-883-11	DS BOARD					C935 C936 C937 C938	1-126-233-11 1-126-233-11 1-126-233-11 1-126-233-11	ELECT ELECT ELECT ELECT	22MF 22MF 22MF 22MF	20% 20% 20% 20%	25V 25V 25V 25V
		ACITOR >					C939	1-126-233-11	ELECT	22MF	20%	25V
C1841 C1842	1-126-233-11 1-126-233-11	ELECT	22MF 22MF		20% 20%	25V 25V	C940 C1701 C1702	1-126-233-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT	22MF 10MF 10MF	20% 20% 20%	25V 50V 50V
D1041	< DIO						C1703 C1704	1-124-907-11 1-124-667-11	ELECT ELECT	10MF 10MF	20% 20%	50 V 50V
D1841 D1842 D1843 D1844	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					C1705 C1706 C1707	1-102-963-00 1-102-963-00 1-102-963-00	CERAMIC CERAMIC CERAMIC	33PF 33PF 33PF	5% 5% 5%	50V 50V 50V
	< CON	NECTOR >					C1708 C1709	1-102-963-00 1-102-963-00	CERAMIC CERAMIC	33PF 33PF	5% 5%	50V 50V
DS6	1-691-182-11 < IC	CONNECTOR (BO	ARD TO	BOARI) 12P		C1710 C1711 C1712	1-102-963-00 1-126-233-11 1-126-233-11	ELECT	33PF 22MF 22MF	5% 20% 20%	50V 50V
IC1801	8-759-183-37						C1713 C1714	1-131-353-00 1-124-120-11	TANTALUM	10MF 220MF	10% 20%	25V 25V 25V
R1841	1-215-441-00		6.8K	1%	1/4W		C1715 C1716 C1717	1-124-478-11 1-126-803-11 1-126-803-11	ELECT	100MF 47MF 47MF	20% 20% 20%	25V 25V 25V
R1842 R1844 R1850	1-215-455-00 1-215-445-00 1-215-429-00	METAL METAL	10K 2.2K		1/4W 1/4W 1/4W	Annual Property Control of the Contr	C1718 C1719	1-131-353-00 1-126-233-11	ELECT	10MF 22MF	10% 20%	25V 25V
R1851	1-215-421-00		1K ******	1%	1/4W *****	******	C1720 C1721 C1722 C1724	1-130-491-00 1-130-491-00 1-130-491-00 1-126-233-11	MYLAR MYLAR	0.047MF 0.047MF 0.047MF	5% 5% 5% 20%	50V 50V 50V 25V
	*A-1640-159-A	D BOARD, COME					C1725	1-102-963-00	CERAMIC	22MF 33PF	20% 5%	50V .
		SCREW (M3X10)	, P, SV	₹ (+)			C1726 C1727 C1728 C1729	1-124-122-11 1-102-963-00 1-102-963-00 1-106-377-00	CERAMIC CERAMIC MYLAR	100MF 33PF 33PF 0.027MF	20% 5% 5% 99%	35V 50V 50V 200V
0001		ACITOR >	1 (1)		200-	167	C1730	1-102-963-00		33PF	5%	50V
C901 C902	1-126-320-11 1-124-477-11		10MF 47MF		20% 20%	16V 16V	C1731 C1732	1-124-122-11 1-106-377-00		100MF 0.027MF	20% 99%	35V 200 V



REF.NO.	PART NO.	DESCRIPTI	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION			REM
C1733 C1734	1-102-963-00 1-102-963-00		33PF 33PF	5% 5 %	50V 50V	D1723	8-719-109-50	DIODE RD2.0ESB1			
C1735	1-124-122-11		100MF	20%	35V		< FUS	E >			
C1736 C1737	1-106-377-00 1-124-937-11		0.027MF 10MF	99% 20%	200V 16V	901777	1-532-237-00	FUSE, TIME-LAG FUSE, TIME-LAG	(BET)	3.15A	/250V
C1738	1-124-122-11		100MF	20%	35V	E504, 21	1-552-257-00	FUSE, TIME-HAG	(DEI)	J.1JE	./ ZJUV 🌉
C1739 C1740	1-136-153-00 1-124-122-11		0.01MF 100MF	5% 20%	50V 35 V		< IC	>			
						IC901	8-759-145-58				
C1741 C1742	1-124-122-11 1-126-104-11		100MF 470MF	20% 20%	35V 35V	IC902 IC903	8-752-033-68 8-759-701-56	IC CXA1268P IC NJM78M05FA			
C1744	1-124-120-11	ELECT	220MF	20%	25V	IC904	8-759-701-65	IC NJM79M05FA			
C1745 C1755	1-126-375-11 1-106-220-00		100MF 0.1MF	20% 10%	25V 100V	IC905	8-759-701-89	IC NJM7915FA			
						IC906		IC UPC2415HF			
C1756 C1757	1-106-220-00 1-106-220-00		0.1MF 0.1MF	10% 10%	100V 100V	IC907 IC908	8-759-140-53 8-759-145-58	IC µPD4053BC			
C1758	1-106-220-00	MYLAR	0.1MF	10%	100V	IC910	8-759-054-40	IC PA0036			
C1759 C1760	1-106-220-00 1-106-220-00		0.1MF 0.1MF	10% 10%	100V 100V	IC1701	8-759-602-19	IC M5220L			
						IC1702	8-759-602-19	IC M5220L			
C1763 C1764	1-124-907-11 1-124-477-11		10MF 47MF	20% 20%	50V 16V	IC1703 IC1704	8-759-602-19 8-749-923-16	IC M5220L IC STK4278-L			
C1765	1-124-477-11	ELECT	47MF	20%	16V	IC1705	8-749-923-16	IC STK4278-L			
C1766 C1769	1-126-101-11 1-124-907-11		100MF 10MF	20% 2 0 %	16V 50V	IC1706	8-759-113-13	IC UPC1498H			
						IC1707	8-759-113-13				
C1770 C1771	1-130-495-00 1-124-907-11		0.1MF 10MF	5% 20%	50V 50V	IC1708 IC1709	8-759-113-13 8-759-145-58	IC UPC4558C			
C1772	1-124-907-11	ELECT	10MF	20%	50V	IC1710	8-759-145-58	IC UPC4558C		•	
C1861	1-102-074-00	CERAMIC	0.001MF	10%	50V	IC1714	8-759-145-58	IC UPC4558C			
	< DIC	ODE >				IC1715 IC1718		IC UPC4558C IC UPC4558C			
D1 D2	1-766-280-11 1-766-281-21						< CO	rr. 👟			
D3	*1-564-512-11	PLUG, CONNE	CTOR 9P								
D4 D5	1-766-278-21 1-766-281-21	PIN, CONNEC	TOR (PC BOAL	RD) 5P		L901 L902		COIL WITH CORE			
				ND; VI		L903	1-459-313-00	COIL WITH CORE	(HWC)		
D6 D7	1-691-169-11 *1-564-507-11					L904	1-459-313-00	COIL WITH CORE	(HWC)		
D8	1-766-276-21	PIN, CONNEC	TOR (PC BOAL	RD) 3P			< TRA	ANSISTOR >			
D9 D14	*1-564-507-11 *1-564-513-11					Q902	8-729-900-89	TRANSISTOR DTC			
	0.540.044.40	DT0DD 14411	^			Q906		TRANSISTOR 2SC			
D901 D902	8-719-911-1 9 8- 719-911-19					Q907 Q908		TRANSISTOR 2SC		r e	
D1702	8-719-911-19	DIODE 1SS11				Q909	8-729-119-78	TRANSISTOR 2SC	2785-н	FE	
D1704 D1705	8-719-900-95 8-719-900-95					Q910	8-729-119-78	TRANSISTOR 2SC	2785-н	FE	
					•	Q911		TRANSISTOR 2SA			
D1706 D1707	8-719-900-95 8-719-911-19	DIODE VOSG	9			Q912	8-/29-119-/6	TRANSISTOR 2SA	11/5-11	rE	
D1708 D1709		DIODE 1SS11 DIODE 1SS11					< RE	SISTOR >			
D1710		DIODE 18811				R901	1-215-463-00			1%	1/4W
D1711	8-719-911-19	DIODE 1SS11	Q.			R902 R903	1-215-463-00 1-215-449-00			1% 1%	1/4W 1/4W
D1712	8-719-911-19	DIODE 1SS11	9			R904	1-215-455-00	METAL	27K	1%	1/4W
D1713 D1714		DIODE 1SS11 DIODE 1SS11				R905	1-215-449-00	METAL	15K	1%	1/4W
D1715		DIODE 18811				R906	1-215-469-00		100K		1/4W
D1716	8-719-911-19	DIODE 1SS11	9			R907 R908	1-215-469-00 1-215-469-00		100K 100K		1/4W 1/4W
D1717	8-719-911-19	DIODE 1SS11	9			R909	1-215-473-00	METAL	150K	1%	1/4W
D1718 D1720		DIODE 1SS11 DIODE RD2.0				R910	1-215-437-00	METAL	4.7K	1%	1/4W
D1721		DIODE RD2.0				R911	1-215-453-00			1%	1/4W
D1722	8-719-109-50	DIODE RD2.0	ESB1			R912 R913	1-215-453-00 1-215-437-00		22K 4.7K		1/4W 1/4W
~2,88	U , 15 105 30	22022 102.0				11723			2		-, -,



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REF.NO.	PART NO.	DESCRIPTION	<u>ON</u>	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>on</u>		RE	MARK
R914 R915	1-215-453-00 1-215-435-00		22K 1% 3.9K 1%	1/4W 1/4W	R976 R977	1-215-399-00 1-215-399-00		120 120	1% 1%	1/4W 1/4W	
R916 R919 R920 R921 R922	1-215-457-00 1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00	METAL METAL METAL	33K 1% 120 1% 120 1% 120 1% 120 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R978 R979 R980 R981 R982	1-215-399-00 1-215-399-00 1-215-399-00 1-215-399-00 1-249-431-11	METAL	120 120 120 120 15K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R923 R924 R925 R926 R927	1-215-441-00 1-215-441-00 1-215-441-00 1-215-463-00 1-215-463-00	METAL METAL METAL	6.8K 1% 6.8K 1% 6.8K 1% 56K 1% 56K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R983 R984 R985 R986 R987	1-249-431-11 1-214-806-21 1-214-806-21 1-214-806-21 1-215-421-00	METAL METAL	15K 3.9 3.9 3.9 1K	5% 1% 1% 1% 1%	1/4W 1/2W 1/2W 1/2W 1/4W	
R928 R929 R930 R931 R932	1-215-461-00 1-215-433-00 1-215-433-00 1-215-433-00 1-215-433-00	METAL METAL METAL	47K 1% 3.3K 1% 3.3K 1% 3.3K 1% 3.3K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R988 R989 R990 R991 R992	1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL METAL METAL METAL METAL	1K 1K 1K 1K 1K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R933 R934 R935 R936 R937	1-215-433-00 1-215-433-00 1-215-439-00 1-215-439-00 1-215-439-00	METAL METAL METAL	3.3K 1% 3.3K 1% 5.6K 1% 5.6K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R993 R994 R995 R999 R1701	1-249-429-11 1-249-429-11 1-215-457-00 1-215-455-00 1-249-411-11	CARBON CARBON METAL METAL CARBON	10K 10K 33K 27K 330	5% 5% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R938 R939 R940 R941 R942	1-215-417-00 1-215-433-00 1-215-429-00 1-215-441-00 1-215-451-00	METAL METAL METAL METAL METAL	680 1% 3.3K 1% 2.2K 1% 6.8K 1% 18K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1702 R1703 R1704 R1705 R1706	1-249-427-11 1-249-427-11 1-249-411-11 1-249-411-11 1-249-427-11	CARBON CARBON	6.8K 330 330	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R943 R944 R945 R946 R947	1-215-441-00 1-215-439-00 1-215-445-00 1-215-445-00 1-215-439-00	METAL METAL METAL METAL METAL	6.8K 1% 5.6K 1% 10K 1% 10K 1% 5.6K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1707 R1708 R1709 R1710 R1711	1-249-411-11 1-249-427-11 1-249-427-11 1-249-411-11 1-249-411-11	CARBON CARBON CARBON CARBON CARBON	6.8K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R948 R949 R950 R951 R952	1-215-455-00 1-215-439-00 1-215-429-00 1-215-429-00 1-215-437-00	METAL METAL METAL METAL METAL	27K 1% 5.6K 1% 2.2K 1% 2.2K 1% 4.7K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1712 R1713 R1714 R1715 R1716	1-249-427-11 1-215-886-11 1-249-411-11 1-249-411-11 1-215-886-11	CARBON METAL OXIDE CARBON CARBON METAL OXIDE	100 330 330	5% 5% 5% 5%	1/4W 2W F 1/4W 1/4W 2W F	
R953 R954 R955 R956 R957	1-215-439-00 1-215-439-00 1-215-435-00 1-215-437-00 1-215-441-00	METAL METAL METAL METAL METAL	5.6K 1% 5.6K 1% 3.9K 1% 4.7K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1717 R1718 R1719 R1720 R1721	1-249-411-11 1-249-417-11 1-214-792-00 1-249-411-11 1-249-417-11	CARBON CARBON METAL CARBON CARBON	1 330	5% 5% 1% 5%	1/4W 1/4W 1/2W 1/4W 1/4W	
R958 R959 R960 R961 R962	1-215-437-00 1-215-439-00 1-215-439-00 1-215-439-00 1-215-441-00	METAL METAL METAL METAL METAL	4.7K 1% 5.6K 1% 5.6K 1% 5.6K 1% 6.8K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	R1722 R1723 R1724 R1725 R1726	1-215-886-11	CARBON CARBON METAL OXIDE METAL OXIDE METAL OXIDE	1K 100 100	5% 5% 5% 5% 5%	1/4W 1/4W 2W F 2W F 2W F	
R963 R964 R965 R966 R967	1-215-469-00	METAL METAL METAL OXIDE METAL METAL	6.8K 1% 6.8K 1% 47 5% 100K 1% 1K 1%	1/4W 1/4W 3W F 1/4W	R1727 R1728 R1729 R1730 R1731	1-214-792-00 1-214-792-00 1-247-807-31	METAL METAL METAL CARBON CARBON	1 1 100	1% 1% 1% 5% 5%	1/2W 1/2W 1/2W 1/4W 1/4W	
R968 R969 R970 R971 R972	1-215-437-00 1-249-421-11 1-215-909-11 1-249-421-11 1-249-431-11	CARBON	4.7K 1% 2.2K 5% 47 5% 2.2K 5% 15K 5%	1/4W 1/4W 3W F 1/4W	R1732 R1733 R1734 R1735 R1736	1-247-807-31 1-247-807-31 1-247-807-31	CARBON CARBON CARBON CARBON CARBON	100 100	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R973 R974 R975		CARBON METAL METAL	15K 5% 120 1% 120 1%	1/4W 1/4W 1/4W	R1737 R1738 R1739	1-249-423-11	CARBON	3.3K 3.3K 3.3K	5%	1/4W 1/4W 1/4W	



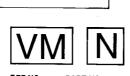
REF.NO.	PART NO.	DESCRIPTION	1		F	REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REN
R1740 R1741	1-249-417-11 1-249-423-11	CARBON CARBON			/4W /4W		R1801 R1802	1-215-439-00 1-215-439-00	METAL METAL	5.6K 5.6K	1% 1%	1/4W 1/4W
R1742 R1743 R1744 R1745 R1746	1-249-423-11 1-249-417-11 1-249-411-11 1-247-807-31 1-214-792-00	CARBON CARBON CARBON CARBON METAL	1K 5	5% 1 5% 1 5% 1	./4W ./4W ./4W ./4W ./2W		R1803 R1805 R1806 R1807 R1808	1-215-439-00 1-215-439-00 1-247-807-31 1-247-807-31 1-214-792-00	METAL METAL CARBON CARBON METAL	5.6K 5.6K 100 100	1% 1% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/2W
R1747 R1748 R1749 R1750 R1751	1-215-886-11 1-215-421-00 1-215-421-00 1-215-421-00 1-215-421-00	METAL OXIDE METAL METAL METAL METAL	1K 1 1K 1 1K 1	1% 1 1% 1 1% 1	2W L/4W L/4W L/4W L/4W	F	R1809 R1810 R1811 R1812 R1813	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00	METAL METAL METAL METAL METAL	1 1 1 1	1% 1% 1% 1% 1%	1/2W 1/2W 1/2W 1/2W 1/2W
R1752 R1753 R1754 R1755 R1756	1-215-421-00 1-215-421-00 1-214-792-00 1-215-469-00 1-215-443-00	METAL METAL METAL METAL METAL	1K 1 1 1 100K 1	1% 1 1% 1 1% 1	L/4W L/4W L/2W L/4W L/4W		R1814 R1815 R1816 R1817 R1818	1-249-431-11 1-247-885-00 1-249-431-11 1-247-885-00 1-247-807-31	CARBON CARBON CARBON CARBON CARBON	15K 180K 15K 180K 100	5% 5% 5% 5 %	1/4W 1/4W 1/4W 1/4W 1/4W
R1757 R1758 R1759 R1760 R1761	1-215-437-00 1-215-437-00 1-247-807-31 1-249-427-11 1-249-419-11	METAL METAL CARBON CARBON CARBON	4.7K 1 100 ! 6.8K !	1% 1 5% 1 5% 1	1/4W 1/4W 1/4W 1/4W 1/4W		R1819 R1820 R1821 R1822 R1823	1-215-437-00 1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	4.7K 4.7K 4.7K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1762 R1763 R1764 R1765 R1766	1-215-445-00 1-249-427-11 1-249-419-11 1-249-419-11 1-249-427-11	METAL CARBON CARBON CARBON CARBON	6.8K 5 1.5K 5 1.5K	5% : 5% : 5% :	1/4W 1/4W 1/4W 1/4W 1/4W		R1824 R1825 R1826 R1827 R1828	1-215-433-00 1-215-433-00 1-215-433-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	3.3K 3.3K 3.3K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1767 R1768 R1769 R1770 R1771	1-249-427-11 1-249-439-11 1-215-445-00 1-247-807-31 1-247-807-31	CARBON CARBON METAL CARBON CARBON	68K 10K 100	5% : 1% : 5% :	1/4W 1/4W 1/4W 1/4W 1/4W		R1829 R1830 R1831 R1832 R1833	1-249-434-11 1-249-434-11 1-247-807-31 1-215-471-00 1-215-471-00	CARBON CARBON CARBON METAL METAL	27K 27K 100 120K 120K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1772 R1773 R1774 R1775 R1776	1-215-429-00 1-215-429-00 1-215-421-00 1-249-429-11 1-215-421-00	METAL METAL METAL CARBON METAL	2.2K 1K 10K	1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1834 R1835 R1836 R1837 R1838	1-215-471-00 1-215-437-00 1-215-437-00 1-215-421-00 1-249-431-11	METAL METAL METAL METAL CARBON	120K 4.7K 4.7K 1K 15K	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R1777 R1778 R1779 R1780 R1781	1-249-423-11 1-215-421-00 1-215-898-11 1-214-806-21 1-214-806-21	METAL METAL OXIDE METAL	3.9	1% 5% 1%	1/4W 1/4W 2W 1/2W 1/2W	F	R1839 R1858 R1859 R1860 R1861	1-249-431-11 1-215-445-00 1-215-445-00 1-215-397-00 1-215-453-00	METAL METAL METAL	15K 10K 10K 100 22K	5% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1782 R1783 R1784 R1785 R1786	1-215-898-11 1-214-806-21 1-214-806-21 1-215-898-11 1-214-806-21	METAL METAL METAL OXIDE	3.9 3.9 10K	1% 1% 5%	2W 1/2W 1/2W 2W 1/2W	F	R1862 R1863 R1864 R1865 R1866	1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00 1-215-453-00	METAL METAL METAL	22K 100 4.7K 22K 22K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1787 R1788 R1789 R1790 R1791	1-214-806-21 1-249-433-11 1-249-441-11 1-249-433-11 1-249-429-11	CARBON CARBON CARBON	22K 100K 22K	5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/4W		R1867 R1868 R1869 R1870 R1871	1-215-437-00 1-215-469-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	4.7K 100K 10K 10K 10K		1/4W 1/4W 1/4W 1/4W 1/4W
R1792 R1793 R1794 R1795 R1796	1-215-445-00 1-247-807-31 1-215-429-00 1-249-433-11 1-247-807-31	CARBON METAL CARBON	100 2.2K 22K	5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1872 R1873 R1874 R1875 R1876	1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL	4.7K 4.7K 4.7K 4.7K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1797 R1798 R1800	1-249-429-11 1-249-423-11 1-247-807-31	CARBON	3.3K	5%	1/4W 1/4W 1/4W		R1877 R1878 R1879	1-215-437-00 1-215-475-00 1-215-475-00	METAL	4.7K 180K 180K	1%	1/4W 1/4W 1/4W



REF.NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1880 R1882	1-215-475-00 1-215-445-00		180K 1% 10K 1%	1/4W 1/4W	RV914 RV915	1-241-630-11 1-241-630-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K	
R1883 R1884 R1885 R1886 R1887	1-215-453-00 1-215-397-00 1-215-445-00 1-215-455-00 1-215-397-00	METAL METAL METAL	22K 1% 100 1% 10K 1% 27K 1% 100 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV916 RV917 RV918 RV919 RV920	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1889 R1890 R1892 R1894 R1895	1-215-457-00 1-215-449-00 1-215-445-00 1-215-429-00 1-215-445-00	METAL METAL METAL	33K 1% 15K 1% 10K 1% 2.2K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV921 RV922 RV923 RV924 RV925	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1896 R1897 R1898 R1899 R1900	1-215-445-00 1-215-445-00 1-215-445-00 1-215-421-00 1-215-429-00	METAL METAL METAL	10K 1% 10K 1% 10K 1% 1K 1% 2.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV926 RV927 RV928 RV929 RV930	1-241-765-11 1-241-765-11 1-241-630-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K	
R1901 R1902 R1903 R1904 R1905	1-215-449-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	15K 1% 10K 1% 10K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV931 RV932 RV933 RV934 RV935	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1906 R1907 R1908 R1909 R1910	1-215-429-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00	METAL METAL METAL	2.2K 1% 10K 1% 10K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV936 RV937 RV938 RV939 RV940	1-241-765-11 1-241-630-11 1-241-630-11 1-241-630-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K RES, ADJ, CARBON 22K	
R1911 R1916 R1920 R1921 R1922	1-215-453-00 1-215-423-00 1-215-453-00 1-215-445-00 1-215-445-00	METAL METAL METAL	22K 1% 1.2K 1% 22K 1% 10K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV941 RV942 RV943 RV944 RV945	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1924 R1925 R1926 R1927 R1928	1-215-429-00 1-215-429-00 1-215-429-00 1-215-445-00 1-215-421-00	METAL METAL METAL	2.2K 1% 2.2K 1% 2.2K 1% 10K 1% 1K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV946 RV947 RV948 RV949 RV950	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
R1929 R1930 R1931 R1932 R1933	1-215-445-00 1-215-397-00 1-215-397-00 1-215-453-00 1-215-453-00	METAL METAL METAL	10K 1% 100 1% 100 1% 22K 1% 22K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	RV951 RV952 RV953 RV954 RV956	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K	
R1934 R1935 R1937	1-215-445-00	CARBON	2.2K 1% 120K 5% 10K 1%	1/4W 1/4W 1/4W	RV957 RV958 RV959 RV961 RV962	1-249-417-11 1-241-765-11 1-241-765-11 1-241-765-11		1/4W
RV901 RV902 RV903 RV904 RV905	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARB RES, ADJ, CARB RES, ADJ, CARB RES, ADJ, CARB RES, ADJ, CARB	ON 22K ON 22K ON 22K ON 22K		RV963 RV964 RV965 RV966 RV967	1-241-765-11 1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K	
RV906 RV907 RV908 RV909 RV910	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARB RES, ADJ, CARB RES, ADJ, CARB RES, ADJ, CARB RES, ADJ, CARB	ON 22K ON 22K ON 22K		RV968 RV969 RV970 RV971 RV972	1-241-765-11 1-241-765-11 1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	
RV911 RV912 RV913	1-241-765-11	RES, ADJ, CARBO	ON 22K		RV973 RV974 RV975	1-241-765-11	RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K RES, ADJ, CARBON 22K	

D	E2	V

	REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
	RV976		RES, ADJ, CARBON 22K			R2 R3	1-216-041-00 1-216-041-00		470 5% 470 5%	1/10W 1/10W	
	RV977	1-241-705-11	RES, ADJ, CARBON 22K			R4	1-216-041-00		10 5%	1/10W	
	RV978	1-241-765-11	RES, ADJ, CARBON 22K			R5	1-216-001-00		220 5%	1/10W	
	RV979		RES, ADJ, CARBON 22K			R6	1-216-073-00		10K 5%	1/10W	
	RV980		RES, ADJ, CARBON 47K								
	RV981	1-241-765-11	RES, ADJ, CARBON 22K			R7	1-216-051-00	METAL GLAZE	1.2K 5%	1/10W	
	RV982		RES, ADJ, CARBON 22K			R8	1-216-063-00		3.9K 5%	1/10W	
						R9	1-216-045-00		680 5%	1/10W	
	*******	*********	*****************	*****	******	R10	1-216-049-00		1K 5%	1/10W	
		*3_1649_141_3	E2 BOARD, COMPLETE			R11	1-216-049-00	METAL GLAZE	1K 5%	1/10W	
			*******			R12	1-216-049-00		1K 5%	1/10W	
,						R13	1-216-095-00		82K 5%	1/10W	
		< CAP	ACITOR >		•	R14	1-216-065-00		4.7K 5%	1/10W	
	01	1 106 100 11	77 77 A 77 NATE	200	1617	R16 R17	1-216-037-00 1-216-055-00		330 5% 1.8K 5%	1/10W 1/10W	
	C1 C2	1-126-103-11	ELECT 470MF CERAMIC CHIP 0.01MF	20%	16V 50V	K1/ .	1-210-033-00	METAL GLAZE	1.07 3%	T/ TOM	
	C3		CERAMIC CHIP 0.01MF		50V	R18	1-216-037-00	METAL CLAZE	330 5%	1/10W	
	C4		CERAMIC CHIP 0.022MF	10%	25V	R19	1-216-049-00		1K 5%	1/10W	
	C5		CERAMIC CHIP 27PF	5%	50 V	R20	1-216-065-00		4.7K 5%	1/10W	
	••			• •		R21	1-216-081-00		22K 5%	1/10W	
	C6	1-163-237-11	CERAMIC CHIP 27PF	5%	50 V	R22	1-216-073-00	METAL GLAZE	10K 5%	1/10W	1
	C7		CERAMIC CHIP 0.1MF	10%	25 V						
	C8		CERAMIC CHIP 0.1MF	10%	25 V	******	*******	*********	********	*****	*****
	C9		CERAMIC CHIP 220PF	5%	50 V						
	C10	1-163-123-00	CERAMIC CHIP 180PF	5%	50 V		*A-1644-054-A	VM BOARD, CO			
	C11	1-163-105-00	CERAMIC CHIP 33PF	5%	50 V						
	C12	1-163-121-00	CERAMIC CHIP 150PF	5%	50V		4-382-854-11	SCREW (M3X10), P, SW (+)		
	C13		CERAMIC CHIP 470PF	5%	50 V						
	C14	1-124-903-11		20%	50V		< CAF	ACITOR >			
	C15	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25 V		4 400 400 00		0.0414	4.00	F 0
	016	1 104 007 11	Pr DOM 10MB	200	E 037	C1501 C1502	1-102-129-00 1-126-101-11		0.01MF 100MF	10% 20%	50V 16V
	C16 C17	1-124-907-11	ELECT 10MF CERAMIC CHIP 0.022MF	20% 10%	50V 25V	C1502	1-126-101-11		0.047MF	20% 10%	200V
	C18		CERAMIC CHIP 120PF	10% 5%	50V	C1505	1-124-907-11		10MF	20%	50V
	C19		CERAMIC CHIP 220PF	10%	50V	C1506	1-108-688-11		0.0047MF	10%	200V
											4 4 4
		< CON	NECTOR >			C1507 C1508	1-106-367-00 1-162-318-11		0.01MF 0.001MF	10% 10%	100V 500V
	CN1	1-573-299-21	CONNECTOR, BOARD TO BOA	RD 10P		C1509	1-106-367-00		0.01MF	10%	100V
	CN2		PIN, CONNECTOR 5P			C1510	1-126-355-11		33MF	20%	160V
						C1511	1-124-799-11	ELECT	2.2MF	20%	160V
		< DIO	DE >		*	C1512	1-108-704-11	MVI AD	0.1MF	10%	200V
	D1	8-719-914-43	DIODE DAN202K			C1512	1-162-318-11		0.1MF	10%	500V
	<i>D</i> 1	0 /15 /14 45	DIODE DAMAGEN			C1514	1-102-951-00		15PF	5%	50V
		< IC	>			C1515	1-102-959-00		22PF	5%	50V
			•			C1516	1-102-963-00	CERAMIC	33PF	5%	50V
	IC1		IC TDA4650/V4						4.4		
	IC2	8-759-140-53	IC MC14053BC			C1517	1-124-667-11		10MF	20%	507
						C1518	1-102-074-00		0.001MF	10%	50V
		< COI	. ш >			C1519	1-108-688-11 1-126-803-11		0.0047MF 47MF	10% 20%	200V 1 6V
	Lİ	1-4 08-421-00	INDUCTOR 100UH			C1520 C1521	1-124-907-11	ETECT.	10MF	20%	50V
	L2	1-404-554-11				(1321	1-124-307-11	EDECI	TOMP	200	301
	L3	1-404-554-11			,	C1551	1-124-122-11	ELECT	100MF	20%	50V
			-			C1552	1-124-122-11		100MF	20%	50V
		< TRA	NSISTOR >			C1553	1-102-824-00	CERAMIC	470PF	5%	50V
						C1554	1-102-824-00		470PF	5%	50V
	Q2	8-7 29-120-28				C1555	1-130-483-00	MYLAR	0.01MF	5%	50V
	Q3	8-729-120-28				F-1					- 4
	Q4		TRANSISTOR 2SC1623-L5L6			C1556	1-130-483-00		0.01MF	5%	50V
	Q5	8-729-120-28	TRANSISTOR 2SC1623-L5L6)		C1557	1-102-824-00		470PF	5% 5%	50V
			TOWN .			C1558	1-102-824-00		470PF	5%	50V
		< RES	SISTOR >			C1559 C1560	1-102-824-00 1-102-824-00		470PF 470PF	5% 5%	50V 50V
	JR1	1-216-296-00	METAL GLAZE 0 5%	1/8	N .	C1200	1-107-074-00	CHAMIC	Z/UFF	J-0	JU¥
	JR2		METAL GLAZE 0 5%			C1561	1-130-483-00	MYLAR	0.01MF	5%	50V
	JR3		METAL GLAZE 0 5%			C1562	1-130-483-00		0.01MF	5%	50V
	JR4		METAL GLAZE 0 5%			C1563	1-130-483-00		0.01MF	5%	50V
						1					



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>N</u>		REMARK	
	< COI	NNECTOR >		R1524	1-249-418-11	CARBON	1.2K	5%	1/4W	
V2 V22	*1-564-518-11 1-695-300-11	NNECTOR > PLUG, CONNECTOR 3P CONNECTOR, BOARD TO BOARD 20	P	R1525 R1526 R1527	1-249-421-11 1-249-426-11 1-249-414-11	CARBON	2.2K 5.6K 560	5%	1/4W 1/4W 1/4W	
	< DIC	ODE >		R1528	1-249-429-11	CARBON	10K		1/4W	
D1502 D1503 D1504 D1505 D1506	8-719-901-33 8-719-901-33	DIODE 1SS133 DIODE 1SS133		R1529 R1530 R1531 R1533	1-249-414-11 1-216-451-11 1-249-423-11 1-247-903-00	METAL OXIDE CARBON CARBON	120 3.3K 1M	5% 5% 5%	1/4W 2W F 1/4W 1/4W	
D1507 D1508 D1509	8-719-982-36 8-719-982-36	DIODE MTZJ-39B DIODE MTZJ-39B DIODE 1SS133		R1534 R1535 R1536 R1551 R1552	1-249-423-11 1-249-392-11 1-249-434-11 1-215-445-00 1-215-423-00	CARBON CARBON METAL	27K	5% 5% 1%	1/4W 1/4W F 1/4W 1/4W 1/4W	
	< IC	>		R1553	1-249-417-11	CARBON	1K	5%	L/4W	
IC1551 IC1552	8-759-912-77	IC UPC4558C IC LM324N		R1554 R1555 R1556 R1557	1-215-445-00 1-215-375-00 1-215-375-00 1-215-375-00	METAL METAL	12 12	1% :	1/4W 1/4W 1/4W 1/4W	
	< CO1	IL >		R1558	1-215-445-00	METAL	10K	1% :	L/4W	
L1502	1-408-418-00 < TRA	INDUCTOR 56UH NSISTOR >		R1559 R1560 R1561	1-215-445-00 1-215-445-00 1-215-423-00	METAL METAL METAL	10K 10K 1.2K	1% : 1% : 1% :	L/4W L/4W L/4W	
Q1501 Q1502	8-729-017-05	TRANSISTOR 2SA1837		R1562	1-215-423-00		1.2K		L/4W	
Q1502 Q1503 Q1504 Q1505	8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2SC4793 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE		R1563 R1564 R1565 R1566	1-215-445-00 1-249-417-11 1-215-445-00 1-215-375-00	CARBON METAL METAL	1K 10K	5% 1% 1%	L/4W L/4W L/4W L/4W	
Q1506 Q1507 Q1508	8-729-119-78 8-729-119-78 8-729-142-86	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC3733		R1567 R1568 R1569	1-215-375-00 1-215-375-00 1-215-445-00	METAL METAL METAL	12	1% : 1% :	L/4W L/4W L/4W	
Q1551 Q1552	8-729-231-60 8-729-141-83	TRANSISTOR 2SD1406-YGR TRANSISTOR 2SB1094-LK		R1570 R1571	1-215-445-00 1-249-417-11	METAL	10K	1% 1	/4W _/4W	
Q1553 Q1554 Q1555	8-729-231-60 8-729-141-83 8-729-231-60	IL > INDUCTOR 56UH INSISTOR > TRANSISTOR 2SA1837 TRANSISTOR 2SC4793 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC1175-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC1406-YGR TRANSISTOR 2SD1406-YGR TRANSISTOR 2SD1094-LK SISTOR > CARBON 2.2 5% 1/4 CARBON 560 5% 1/4 CARBON 39 5% 1/5 CARBON 39 5% 1/5 CARBON 39 5% 1/5 CARBON 39 5% 1/5 CARBON 1.8 5% 1/4		R1572 R1573 R1574	1-215-445-00 1-215-375-00 1-215-375-00	METAL METAL METAL	10K 12 12	1% 1 1% 1	./4W ./4W ./4W	
Q1556	8-729-141-83	TRANSISTOR 2SB1094-LK		R1575 R1576	1-215-375-00 1-215-445-00	METAL METAL			./4W ./4W	
	< RES	ISTOR >		R1577	1-215-445-00	METAL	10K		./4W	
R1501 R1502 R1503 R1504 R1505	1-249-451-11 1-249-414-11 1-247-734-11 1-249-384-11 1-247-807-31	CARBON 2.2 5% 1/4 CARBON 560 5% 1/4 CARBON 39 5% 1/4 CARBON 1.8 5% 1/4 CARBON 100 5% 1/4	iw F iw F 2W F iw F iw	R1578 R1579 R1580 R1581 R1582	1-249-417-11 1-249-417-11 1-249-417-11 1-249-432-11 1-249-432-11	CARBON CARBON CARBON CARBON CARBON	1K 1K 18K	5% 1 5% 1 5% 1	/4W /4W /4W /4W /4W	
R1506	1-249-419-11	CARBON 1.5K 5% 1/4	lw	*****	******	******	*****			
R1507 R1508 R1509 R1510	1-249-412-11 1-249-436-11 1-249-421-11 1-249-436-11	CARBON 390 5% 1/4 CARBON 39K 5% 1/4 CARBON 2.2K 5% 1/4 CARBON 39K 5% 1/4	lw lw		*A-1678-079-A	N BOARD, COMP				
R1511 R1512	1-249-418-11 1-249-441-11	CARBON 1.2K 5% 1/4 CARBON 100K 5% 1/4	IW		4-030-359-11 *4-363-146-00	HEAT SINK, H. HEAT SINK, V.	PIN OUT			
R1513 R1514	1-249-432-11 1-247-807-31		lw			ACITOR >				
R1515 R1517 R1519	1-249-435-11 1-249-417-11	CARBON 1K 5% 1/4	W F	C801 C803 C804	1-123-024-21 1-136-541-11 1-108-700-11	FILM MYLAR	33MF 1.5MF 0.047MF	5% 10	% 200V	
R1520 R1521	1-249-432-11 1-249-414-11		lw lw	C805 C806	1-102-030-00 1-136-165-00	FILM	330PF 0.1MF	10 5%	50V	
R1522 R1523	1-249-384-11		W F	C808 C809 C811	1-126-541-11 1-124-903-11 1-124-902-00	ELECT	330MF 1MF 0.47MF	20 20 20	% 50V	

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REF.NO.	PART NO.	DESCRIPTION	ON		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N			REMARK
C812 C813	1-102-973-00 1-102-244-00	CERAMIC CERAMIC	100PF 220PF	5% 10%	50V 500V		< CON	NECTOR >				
C814 C817 C818 C819 C820	1-110-364-11 1-126-541-11 1-102-824-00 1-124-907-11 1-124-907-11	ELECT CERAMIC ELECT	0.1MF 330MF 470PF 10MF	10% 20% 5% 20% 20%	200V 25V 50V 50V 50V	N2 N4 N5 N6 N7	*1-568-880-51 *1-568-879-11 *1-568-880-51 1-508-786-00 1-508-765-00	PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	OR 4P OR 5P OR (5MM			
C821 C822 C823 C831 C832	1-124-907-11 1-104-792-51 1-124-907-11 1-106-220-00 1-124-907-11	ELECT ELECT ELECT MYLAR	10MF 33MF 10MF 0.1MF 10MF	20% 20% 20% 10% 20%	50V 16V 50V 100V 50V	N10 N30 N851 N853	*1-506-371-00 *1-506-371-00	PIN, CONNECTO	OR (5MM OR 2P	PITCH) 1P	
C833 C834 C835	1-124-916-11 1-102-121-00 1-124-927-11	ELECT CERAMIC	22MF 0.0022MF 4.7MF	20% 10% 20%	50V 50V 50V	NL801	1-519-237-14	LAMP, NEON				
C836 C837	1-124-527-11 1-164-091-11 1-136-169-00	CERAMIC	0.0022MF 0.22MF	20% 10% 5%	50V 50V 50V	Q801	8-729-201-62					
C838 C839	1-164-091-11 1-102-106-00	CERAMIC	0.0022MF 100PF	10% 10%	50V 50V		4-382-854-11 4-383-023-01	SCREW (M3X10) SPACER, MICA			; Q801	
C840 C842 C843	1-136-807-11 1-130-471-00 1-136-173-00	MYLAR	0.018MF 0.001MF 0.47MF	3% 5% 5%	1.6KV 50V 50V	Q802	8-729-119-80 4-373-933-01 4-382-854-11	SHEET (TRANS) SCREW (M3X10)	(STOR),	BN ;		
C844 C850 C851	1-110-364-11 1-136-169-00 1-124-907-11	FILM	0.1MF 0.22MF	10% 5%	200V 50V	Q803 Q804	8-729-119-78		C2785-1	HFE		
C852 C853	1-124-907-11 1-124-907-11 1-106-220-00	ELECT	10MF 10MF 0.1MF	20% 20% 10%	50V 50V 100V	Q806 Q811 Q812	8-729-119-80 8-729-805-07 4-382-854-11 8-729-804-48	TRANSISTOR 25 SCREW (M3X10)	SD1887-0	CA	; Q811	
C854 C855 C856 C888	1-126-329-11 1-126-804-11 1-162-114-00 1-124-903-11	ELECT CERAMIC	470MF 100MF 0.0047MF 1MF	20% 20% 20%	50V 50V 2KV 50V	Q851 Q852 Q853	8-729-119-78 8-729-119-78	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	SC2785-1 SC2785-1	HFE		
	< DIO	DE >						ISTOR >				
D801 D802 D805 D806 D807	8-719-928-08 8-719-302-43 8-719-901-33 8-719-109-85 8-719-109-85	DIODE EL1Z DIODE 1SS133 DIODE RD5.1E	S SB2			R800 R801 R803 R804 R805	1-249-401-11 1-216-378-11 1-215-869-11 1-249-429-11 1-249-423-11	METAL OXIDE METAL OXIDE CARBON	47 5.6 1K 10K 3.3K	5% 5% 5% 5% 5%	1/4W 2W 1W 1/4W 1/4W	F F
D808 D810 D814 D815 D817	8-719-901-33 8-719-901-33 8-719-901-33 8-719-921-88 8-719-945-80	DIODE 1SS133 DIODE 1SS133 DIODE MTZJ-1	i i .3B			R806 R807 R808 R809 R811	1-249-425-11 1-249-441-11 1-249-419-11 1-249-417-11 1-249-421-11	CARBON CARBON CARBON	4.7K 100K 1.5K 1K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	,
D818 D850 D851 D852 D853	8-719-901-33 8-719-982-07 8-719-903-09 8-719-901-33 8-719-903-09	DIODE V30N DIODE 1SS133	3.9A			R812 R813 R814 R815 R824	1-249-420-11 1-215-921-11 1-249-409-11 1-249-416-11 1-215-469-00	METAL OXIDE CARBON CARBON	1.8K 4.7K 220 820 100K	5% 5% 5%	1/4W 3W 1/4W 1/4W 1/4W	P
	< IC	>				R825 R826	1-215-453-00 1-214-962-00		22K 820K	1%	1/4W 1/4W	
IC803 IC804 IC805	8-759-503-91 8-759-103-93 8-759-100-75	IC UPC393C				R827 R828 R829	1-214-764-00 1-215-455-00 1-215-455-00	METAL METAL	30K 27K 27K	1% 1% 1% 1%	1/4W 1/4W 1/4W	
< COIL >						R830 R831	1-215-928-11 1-215-928-11		68K 68K	5% 5%	3W 3W	F F
L802 L803 L804 L805	1-409-570-11 1-459-313-00 1-408-421-00 1-424-603-11	COIL WITH CO	ORE (HWC) 100UH			R832 R833 R834	1-249-417-11 1-249-419-11 1-249-419-11	CARBON CARBON	1K 1.5K 1.5K	5% 5%	1/4W 1/4W 1/4W	e .
						R835 R836	1-215-429-00 1-215-435-00		2.2K 3.9K	1% 1%	1/4W 1/4W	

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shading and marked 1 are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPTION	N			REMARK
R837	1-247-863-91		22K	5%	1/4W			< TRA	INSFORMER >				
R838 R839	1-249-435-11 1-249-438-11		33K 56K	5% 5%	1/4W 1/4W		T801	1-437-078-00	TRANSFORMER,	HORIZO	ONTAL	DRIVE	
R840	1-249-434-11		27K	5%	1/4W		T802	1-437-090-00 1-453-121-11		ASSY, E	LYBAC	K (NX-2	630B4
R841 R842	1-249-429-11 1-249-435-11		10K 33K	5% 5%	1/4W 1/4W			******					
R847	1-214-761-00	METAL	22K	1%	1/4W								
R848	1-215-429-00	METAL	2.2K	1%	1/4W			*1-653-061-11	ZR BOARD				
R849 R850	1-215-421-00 1-215-429-00		1K 2.2K	1% 1%	1/4W 1/4W			- 017	NACTEOD .				
R851	1-215-404-00	METAL	200	1%	1/4W			< CAI	PACITOR >				
R858 R859	1-249-417-11 1-249-435-11		1K 33K	5% 5%	1/4W 1/4W		C1901 C1902	1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV
R860							V2,V2			33411		10.0	21.1
R861	1-249-441-11 1-249-421-11		100K 2.2K	5% 5%	1/4W 1/4W			< RES	SISTOR >				
R862	1-249-434-11	CARBON	27K	5%	1/4W		R1901	1-202-822-00	SOLID	2.2K	20%	1/2W	
R863	1-249-431-11		15K	5%	1/4W		R1902	1-202-822-00		2.2K		1/2W	
R864	1-249-428-11	CARBON	8.2K	5%	1/4W		R1903 R1904	1-249-414-11 1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W	
R865	1-249-440-11	CARBON	82K	5%	1/4W		R1905	1-215-888-00		220	5%	2W	F
R866	1-249-436-11		39K	5%	1/4W								•
R867 R868	1-249-437-11 1-249-428-11		47K 8.2K	5% 5%	1/4W 1/4W			< CON	iector >				
R871	1-249-440-11		82K	5%	1/4W		ZR1	*1-564-522-11	PLUG. CONNEC	TOR 7P			
							ZR2	*1-564-518-11	PLUG, CONNEC	TOR 3P			
R872 R873	1-249-423-11 1-249-441-11		3.3K 100K		1/4W		ZR18	*1-691-292-11	PIN, CONNECT	OR (PC	BOARD) 3P	
R874	1-249-435-11		33K	5%	1/4W 1/4W		*****	********	*********	******	*****	*****	*****
R875	1-249-421-11	CARBON	2.2K	5%	1/4W								
R876	1-215-426-00	METAL	1.6K	1%	1/4W			*1-653-062-11	ZG BOARD				
R877	1-249-434-11		27K	5%	1/4W			< CAI	PACITOR >				
R878 R880	1-249-441-11 1-249-429-11		100K 10K	5%	1/4W		21011	1 160 115 00					
R881	1-214-761-00		22K	5% 1%	1/4W 1/4W		C1911 C1912	1-162-115-00 1-162-115-00		330PF 330PF		10% 10%	2KV 2KV
R884	1-215-894-11		2.2K	5%	2W	F	CIJI			55011		10%	21(1
R885	1-249-438-11	CARBON	56K	5%	1/4W			< RES	SISTOR >				
R886	1-249-417-11	CARBON	1K	5%	1/4W		R1911	1-202-822-00	SOLID	2.2K	20%	1/2W	
R887 R888	1-215-397-00 1-249-410-11		100	1%	1/4W		R1912	1-202-822-00		2.2K	20%	1/2W	
R889	1-249-417-11	CARBON CARBON	270 1K	5% 5%	1/4W 1/4W		R1913 R1914	1-249-414-11 1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W	
					•		R1915	1-215-888-00		220	5%	2W	F
R890 R892	1-249-431-11 1-249-417-11		15K 1K	5% 5%	1/4W 1/4W	P		- CON	NECTOR >				
R893	1-215-453-00	METAL	22K	1%	1/4W	•		COL	MECTOR >				
R894	1-249-401-11		47	5%	1/4W		ZG2	1-564-523-11					
R895	1-202-731-00	SOLID	10M	20%	1/2W	•	ZG19	*1-691-292-11	PIN, CONNECT	OR (PC	BOARD)) 3P	
R896	1-260-111-11		10K	5%	1/2W		******	*******	*********	*****	****	*****	******
R897 R898	1-247-881-00 1-202-730-00		120K 8.2M		1/4W 1/2W			#1 (E2 0(2 11	7D DALDD				
R899	1-249-429-11		10K	5%	1/4W			*1-653-063-11	2B BUARD				
R903	1-247-735-11	SOLID	47	5%	1/2W			•					
R904	1-215-928-11	METAL OXIDE	68K	5%	3W	F		< CAE	PACITOR >				
R910	1-249-425-11		4.7K		1/4W	_	C1921	1-162-115-00		330PF		10%	2KV
	< VAR	RIABLE RESISTO	R >				C1922	1-162-115-00		330PF		10%	2KV
RV901	1-241-765-11	RES, ADJ, CAI	RBON 22	K				< RES	SISTOR >				
RV902	1-241-765-11	RES, ADJ, CAL	RBON 22	K			R1921	1-202-822-00	SOLID	2.2K	20%	1/2W	
	. Ans	IDV CAD -					R1922	1-202-822-00	SOLID	2.2K	20%	1/2W	
	< SPA	ARK GAP >					R1923 R1924	1-249-414-11 1-249-414-11		560 560	5% 5%	1/4W 1/4W	
SG801	1-519-422-11	GAP, SPARK					114/61	1 217 TIT-II	OUTDOM	300	J 0	±/ #11	
								< CON	NECTOR >				
							ZB3	1-564-524-11	PLUG, CONNEC	TOR 9P			

snading and marked ! are critical for safety. Replace only with the part number specified.

REF.NO. PART NO. DESCRIPTION REMARK *1-691-292-11 PIN, CONNECTOR (PC BOARD) 3P **************** MISCELLANEOUS ******** 1-241-744-11 RESISTOR ASSY, HIGH-VOLTAGE 1-452-032-00 MAGNET, DISK; 10MM Ø 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø ₼ 1-453-108-11 DC BLOCK, HIGH-VOLTAGE 1-453-121-11 TRANSFORMER ASSY, FLYBACK (NX-2630B4) 1-504-145-11 SPEAKER (12CM) 1-559-865-41 LEAD ASSY, HIGH-VOLTAGE 1-693-185-11 TUNER (UV916H) "我想你是一个一个 ! 1-765-286-11 CORD, POWER * 8-451-441-11 DEFLECTION YOKE (Y829PA (R,G)) £ 8-451-441-21 DEFLECTION YOKE (Y829PAN2 (B)) ### 8-451-441-21 DEFLECTION FUNE (1025FAN2 (D))
8-736-074-05 PICTURE TUBE (SD-279) (07MAB2(R))
8-736-072-05 PICTURE TUBE (SD-279) (07MAB2(G))
8-736-073-05 PICTURE TUBE (SD-279) (07MAB2(B)) V902

ACCESSORIES AND PACKING MATERIALS **********

4-030-895-01 JOINT 4-037-938-01 INDIVIDUAL CARTON 4-037-939-01 TRAY 4-037-940-01 PLATE, TOP 4-037-941-01 PLATE, BOTTOM 4-037-942-01 CUSHION (UPPER) (ASSY) 4-037-943-01 CUSHION (LOWER) (ASSY) 4-202-762-11 MANUAL, INSTRUCTION (ENGLISH/SPANISH/PORTUGUESE/SWEDISH) 4-388-954-01 BAG, PROTECTION

REMOTE COMMANDER **********

1-467-264-11 REMOTE COMMANDER (RM-842) 9-903-466-11 POCKET COVER (FOR RM-842)

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REF.NO.

PART NO.

DESCRIPTION